PROTECTED TREE REPORT

PREPARED FOR

Holland Acquisitions Co., LLC

PROPERTY

6300 W. 3rd St.,

Los Angeles, CA 90036

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May 7, 2018

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- New Tree Planting
- Tree Maintenance and Pruning
- Diseases and Insects
- Grade Changes
- Inspection

TREE REPORT

6300 W. 3rd St.,
Los Angeles, CA 90036

SUMMARY

PROJECT OVERVIEW	
Site Address	**6300 W. 3rd St., Los Angeles, CA 90036**
Location and/or Specific Plan	**La Brea**
Project Description	**New mixed-use development**
Number of Protected Trees on Site	**0**
Number of Recommended Removals	**0**

This Tree Report was prepared at the request of the property owner, Holland Acquisitions Co., LLC, who is preparing to build a mixed use development on this property.

PROTECTED TREES, URBAN FORESTRY DIVISION

This property is under the jurisdiction of the City of Los Angeles and guided by the Native Tree Protection Ordinance No. 177,404. **Protected Trees** are defined by this ordinance as Oaks (*Quercus* sp) indigenous to California but excluding the scrub oak (*Quercus dumosa*); Southern California black walnut (*Juglans californica* var. californica); Western sycamore *(Platanus racemosa)* and California bay laurel (*Umbellularia californica*) trees with a diameter at breast height (DBH) of four inches (4") or greater.

There are NO trees on this property that would be considered protected within the City of Los Angeles Native Tree Protection Ordinance.

NEIGHBOR TREES

I have also inspected the neighboring properties to confirm there are no Protected trees that are adjacent to the construction zone, or in areas of impact.

CITY OF LOS ANGELES STREET TREES, URBAN FORESTRY DIVISION

At this time I observed three (3) Indian Laurel Fig (Ficus mircocarpa nitida) **City of Los Angeles Street Trees.** All three trees are in fair condition.

NON-PROTECTED SIGNIFICANT TREES, DEPARTMENT OF CITY PLANNING

The Department of City Planning requires the identification of the location, size, type and condition of all existing trees on the site with a DBH of 8 inches (8") or greater. These trees will be identified as **Non-Protected Significant Trees.**

At this time, I observed thirteen (13) **Non-Protected Significant Trees** in fair condition on the property.

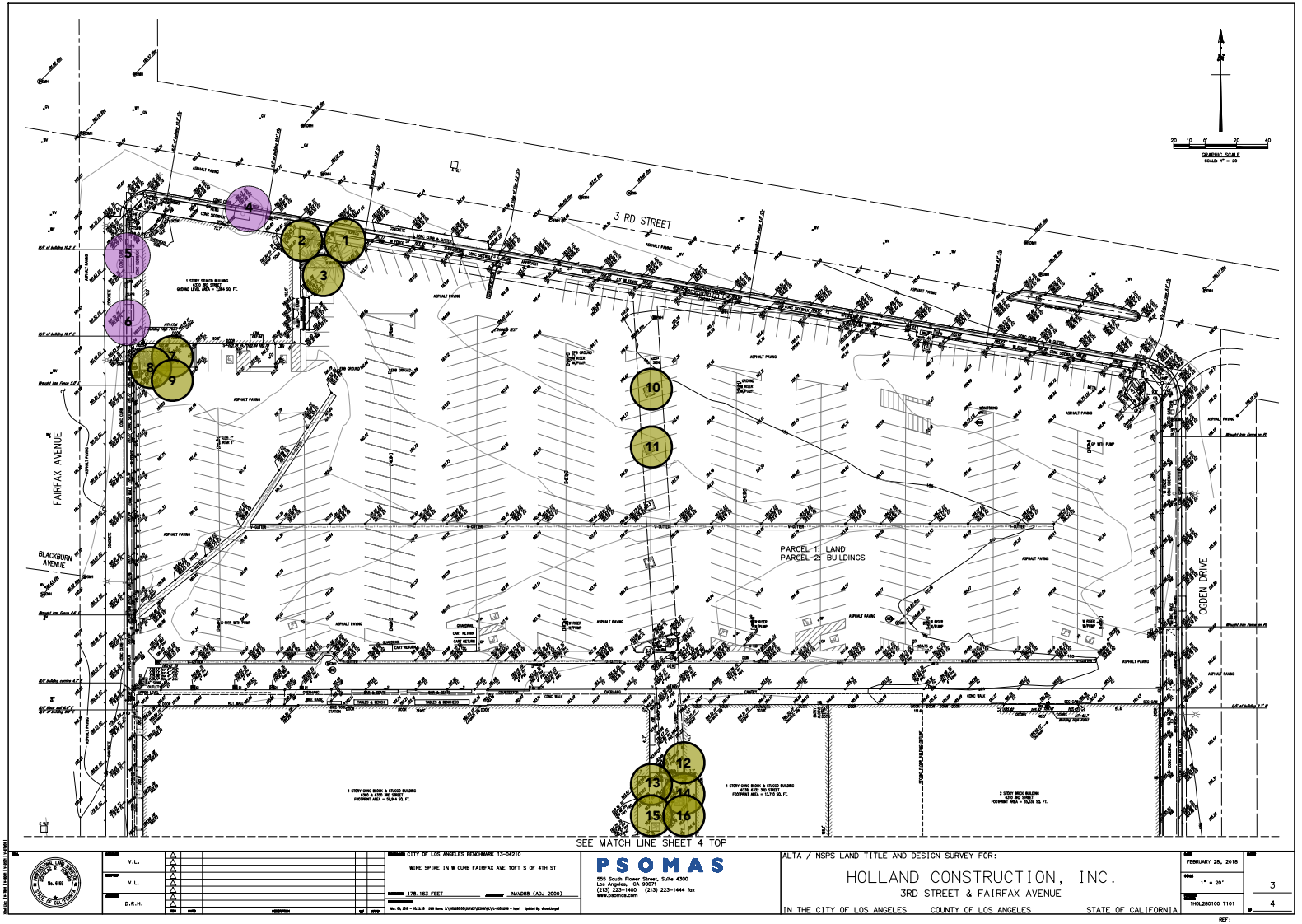
ASSIGNMENT

The Assignment included a field observation and inventory of the trees on site. A Tree Location Plot Map is included in Appendix A. Photographs of the subject trees are included in Appendix B.

TREE CHARACTERISTICS AND SITE CONDITIONS

Detailed information with respect to size, condition, species and recommendations are included in the Summary of Field Inspections in Appendix C. The trees are numbered on the Tree Location Map in Appendix A.

Appendix A: Tree Locations on Project Survey



PROJECT SUMMARY	
Site Address	**6300 W. 3rd St.**
Location	**La Brea**
Project Description	**Mixed use build**

KEY

- Non-Protected Significant Tree
- Street Tree

APPENDIX B - PHOTOGRAPHS



PHOTO 1 - Shows (3) Non-Protected Significant Trees on the property. Two (2) Canary Pine (*Pinus canariensis)* and one Aleppo Pine *(Pinus halepensis).* All three trees are in fair condition.

APPENDIX B - PHOTOGRAPHS



PHOTO 2 - Shows the two (2) Indian Laurel Fig (Ficus mircocarpa nitida) City of Los Angeles Street Trees. Both are in fair condition.

APPENDIX B - PHOTOGRAPHS



PHOTO 2 - Shows one (1) Indian Laurel Fig (Ficus mircocarpa nitida) City of Los Angeles Street tree in fair condition.

APPENDIX C - SUMMARY OF FIELD INSPECTION

Rating Code: A = Excellent, B = Good, C = Fair, D = Poor, E = Nearly Dead, F = Dead

FORM							RATING	
Tree #	**Location**	**Species**	**Status**	**DBH (")**	**Height (')**	**Spread (')**	**Summary of Condition**	**Retain or Remove**
1	3rd and Fairfax	Canary Pine *Pinus canariensis*	Non-Protected	16, 20, 12	40	30	C	
2	3rd and Fairfax	Canary Pine *Pinus canariensis*	Non-Protected	12	40	15	C	
3	3rd and Fairfax	Aleppo Pine *Pinus halepensis*	Non-Protected	16	40	20	C	
4	Street	Indian Laurel Fig *Ficus mircocarpa nitida*	Non-Protected	18	40	30	C	
5	Street	Indian Laurel Fig *Ficus mircocarpa nitida*	Non-Protected	18	40	30	C	
6	Street	Indian Laurel Fig *Ficus mircocarpa nitida*	Non-Protected	20	40	30	C	
7	3rd and Fairfax	Canary Pine *Pinus canariensis*	Non-Protected	16	50	15	C	
8	3rd and Fairfax	Canary Pine *Pinus canariensis*	Non-Protected	16	50	15	C	
9	3rd and Fairfax	Canary Pine *Pinus canariensis*	Non-Protected	16	50	15	C	
10	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
11	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
12	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
13	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
14	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
15	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	
16	Parking Lot	Mexican Fan Palm Washingtonia robusta	Non-Protected	14	60		C	

Assumptions and Limiting Conditions

No warranty is made, expressed or implied, that problems or deficiencies of the trees or the property will not occur in the future, from any cause. The Consultant shall not be responsible for damages or injuries caused by any tree defects, and assumes no responsibility for the correction of defects or tree related problems.

The owner of the trees may choose to accept or disregard the recommendations of the Consultant, or seek additional advice to determine if a tree meets the owner's risk abatement standards.

The Consulting Arborist has no past, present or future interest in the removal or retaining of any tree. Opinions contained herein are the independent and objective judgments of the consultant relating to circumstances and observations made on the subject site.

The recommendations contained in this report are the opinions of the Consulting Arborist at the time of inspection. These opinions are based on the knowledge, experience, and education of the Consultant. The field inspection was a visual, grade level tree assessment.

The Consulting Arborist shall not be required to give testimony, perform site monitoring, provide further documentation, be deposed, or to attend any meeting without subsequent contractual arrangements for this additional employment, including payment of additional fees for such services as described by the Consultant.

The Consultant assumes no responsibility for verification of ownership or locations of property lines, or for results of any actions or recommendations based on inaccurate information.

This Arborist report may not be reproduced without the express permission of the Consulting Arborist and the client to whom the report was issued. Any change or alteration to this report invalidates the entire report.

Should you have any further questions regarding this property, please contact me at (310) 663-2290.

Respectfully submitted,



Lisa Smith

Registered Consulting Arborist #464
ISA Board Certified Master Arborist #WE3782
ISA Tree Risk Assessor Qualified
American Society of Consulting Arborists, Member



GENERAL RECOMMENDATIONS

During the course of construction, trees can receive much stress, pollution, soil compaction and lack of water. The following general recommendations should be followed to establish and maintain a healthy environment for all retained trees.

WORKING IN THE TREE PROTECTION ZONE

This area generally encompasses an area within the dripline of the tree plus additional feet depending on the species and size of the tree. However, if you should need to encroach within a tree's protected zone, please follow these guidelines.

Observation – All work within the protected zone should be observed by a certified arborist experienced with each specific tree's requirements. The arborist should be contacted in a timely manner to ensure their availability.

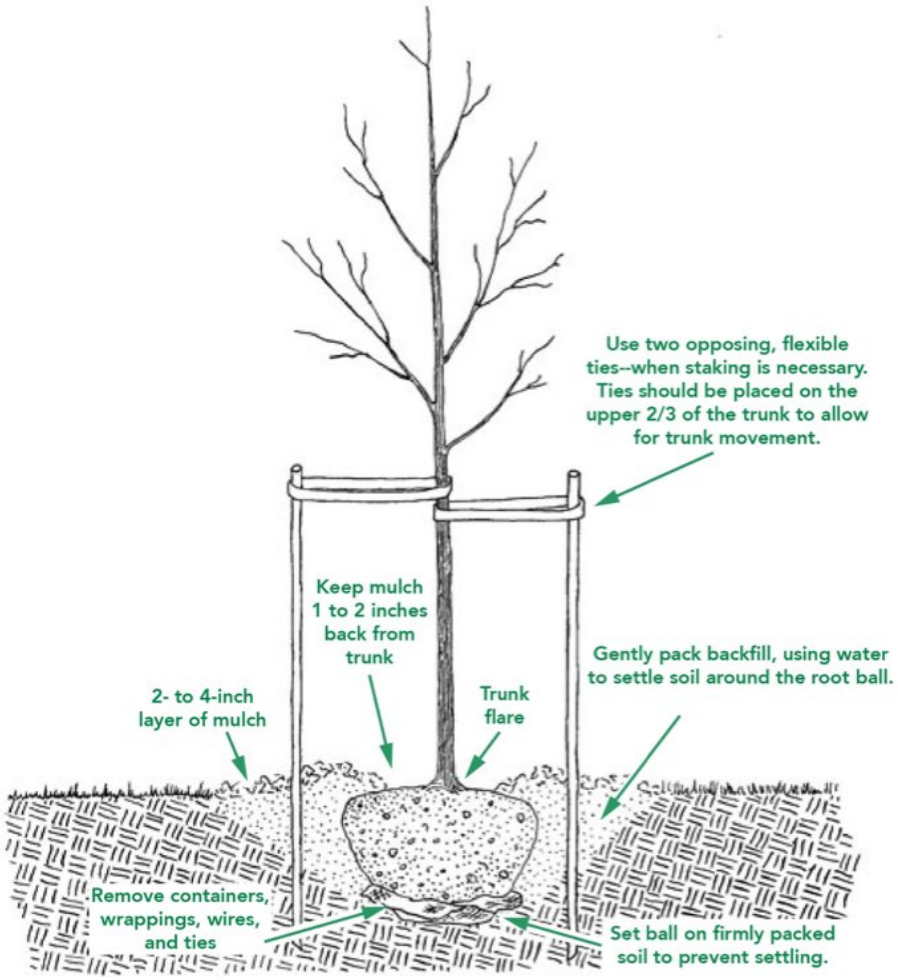
Hand Tools – All work should be performed utilizing hand tools only. To reduce compaction in the root zone, no large equipment, such as backhoes or tractors should be utilized in this protected zone.

Root Pruning - Should there be a need to perform any light root pruning, it should be done carefully. The roots should be exposed through hand digging**. The roots should be cut at a 90-degree angle and cut cleanly**. No roots should be torn or jagged; this can lead to rotting and decay in the root zone and reduced stability and health in the tree. I caution excessive root pruning, and encourage you to err on the conservative side. If a tree is in any existing stress or is lacking in health and vigor, the root pruning can contribute to the quick decline of a tree.

Protective Fencing – If necessary, the arborist should be contacted to develop a specific fencing plan for your trees. Fencing may be of a flexible configuration and be a minimum of 4 feet in height. A warning sign must be displayed on the street side of the fence, stating the requirements of all workers in the protected zone. Throughout the course of construction, maintain the integrity of the tree protection zone fencing and keep the site clean and maintained at all times.

Irrigation – Irrigate trees for the duration of the project. If the tree is newly planted, deep watering should be weekly during its establishment period. If the tree is quite mature, deep water once per month during spring and summer months.

NEW TREE PLANTING



The ideal time to plant trees and shrubs is during the dormant season, in the fall after leaf drop or early spring before budbreak. Weather conditions are cool and allow plants to establish roots in the new location before spring rains and summer heat stimulate new top growth. Before you begin planting your tree, be sure you have had all underground utilities located prior to digging.

If the tree you are planting is balled or bare root, it is important to understand that its root system has been reduced by 90 to 95 percent of its original size during transplanting. As a result of the trauma caused by the digging process, trees commonly exhibit what is known as transplant shock. Containerized trees may also experience transplant shock, particularly if they have circling roots that must be cut. Transplant shock is indicated by slow growth and reduced vigor following transplanting. Proper site preparation before and during planting coupled with good follow-up care reduces the amount of time the plant experiences transplant shock and allows the tree to quickly establish in its new location. Carefully follow nine simple steps, and you can significantly reduce the stress placed on the plant at the time of planting.

NEW TREE PLANTING, continued

1. Dig a shallow, broad planting hole. Make the hole wide, as much as three times the diameter of the root ball but only as deep as the root ball. It is important to make the hole wide because the roots on the newly establishing tree must push through surrounding soil in order to establish. On most planting sites in new developments, the existing soils have been compacted and are unsuitable for healthy root growth. Breaking up the soil in a large area around the tree provides the newly emerging roots room to expand into loose soil to hasten establishment.

2. Identify the trunk flare. The trunk flare is where the roots spread at the base of the tree. This point should be partially visible after the tree has been planted (see diagram). If the trunk flare is not partially visible, you may have to remove some soil from the top of the root ball. Find it so you can determine how deep the hole needs for proper planting.

3. Remove tree container for containerized trees. Carefully cutting down the sides of the container may make this easier. Inspect the root ball for circling roots and cut or remove them. Expose the trunk flare, if necessary.

4. Place the tree at the proper height. Before placing the tree in the hole, check to see that the hole has been dug to the proper depth and no more. The majority of the roots on the newly planted tree will develop in the top 12 inches of soil. If the tree is planted too deeply, new roots will have difficulty developing because of a lack of oxygen. It is better to plant the tree a little high, 1-2 inches above the base of the trunk flare, than to plant it at or below the original growing level. This planting level will allow for some settling.

5. Straighten the tree in the hole. Before you begin backfilling, have someone view the tree from several directions to confirm that the tree is straight. Once you begin backfilling, it is difficult to reposition the tree.

6. Fill the hole gently but firmly. Fill the hole about one-third full and gently but firmly pack the soil around the base of the root ball. Be careful not to damage the trunk or roots in the process. Fill the remainder of the hole, taking care to firmly pack soil to eliminate air pockets that may cause roots to dry out. To avoid this problem, add the soil a few inches at a time and settle with water. Continue this process until the hole is filled and the tree is firmly planted. It is not recommended to apply fertilizer at time of planting.

7. Stake the tree, if necessary. If the tree is grown properly at the nursery, staking for support will not be necessary in most home landscape situations. Studies have shown that trees establish more quickly and develop stronger trunk and root systems if they are not staked at the time of planting. However, protective staking may be required on sites where lawn mower damage, vandalism, or windy conditions are concerns. If staking is necessary for support, there are three methods to choose among: staking, guying, and ball stabilizing. One of the most common methods is staking. With this method, two stakes used in conjunction with a wide, flexible tie material on the lower half of the tree will hold the tree upright, provide flexibility, and minimize injury to the trunk (see diagram). Remove support staking and ties after the first year of growth.

8. Mulch the base of the tree. Mulch is simply organic matter applied to the area at the base of the tree. It acts as a blanket to hold moisture, it moderates soil temperature extremes, and it reduces competition from grass and weeds. A 2- to 3-inch layer is ideal. More than 3 inches may cause a problem with oxygen and moisture levels. When placing mulch, be sure that the actual trunk of the tree is not covered. Doing so may cause decay of the living bark at the base of the tree. A mulch-free area, 1 to 2 inches wide at the base of the tree, is sufficient to avoid moist bark conditions and prevent decay.

TREE MAINTENANCE AND PRUNING

Some trees do not generally require pruning. The occasional removal of dead twigs or wood is typical. Occasionally a tree has a defect or structural condition that would benefit from pruning. Any pruning activity should be performed under the guidance of a certified arborist or tree expert.

Because each cut has the potential to change the growth of the tree, no branch should be removed without a reason. Common reasons for pruning are to remove dead branches, to remove crowded or rubbing limbs, and to eliminate hazards. Trees may also be pruned to increase light and air penetration to the inside of the tree's crown or to the landscape below. In most cases, mature trees are pruned as a corrective or preventive measure.

Routine thinning does not necessarily improve the health of a tree. Trees produce a dense crown of leaves to manufacture the sugar used as energy for growth and development. Removal of foliage through pruning can reduce growth and stored energy reserves. Heavy pruning can be a significant health stress for the tree.

Yet if people and trees are to coexist in an urban or suburban environment, then we sometimes have to modify the trees. City environments do not mimic natural forest conditions. Safety is a major concern. Also, we want trees to complement other landscape plantings and lawns. Proper pruning, with an understanding of tree biology, can maintain good tree health and structure while enhancing the aesthetic and economic values of our landscapes.

Pruning Techniques – From the I.S.A. Guideline

Specific types of pruning may be necessary to maintain a mature tree in a healthy, safe, and attractive condition.

Cleaning is the removal of dead, dying, diseased, crowded, weakly attached, and low- vigor branches from the crown of a tree.

Thinning is the selective removal of branches to increase light penetration and air movement through the crown. Thinning opens the foliage of a tree, reduces weight on heavy limbs, and helps retain the tree's natural shape.

Raising removes the lower branches from a tree to provide clearance for buildings, vehicles, pedestrians, and vistas.

Reduction reduces the size of a tree, often for clearance for utility lines. Reducing the height or spread of a tree is best accomplished by pruning back the leaders and branch terminals to lateral branches that are large enough to assume the terminal roles (at least one-third the diameter of the cut stem). Compared to topping, reduction helps maintain the form and structural integrity of the tree.

TREE MAINTENANCE AND PRUNING, continued

How Much Should Be Pruned?

Mature trees should require little routine pruning. A widely accepted rule of thumb is never to remove more than one-quarter of a tree's leaf-bearing crown. In a mature tree, pruning even that much could have negative effects. Removing even a single, large- diameter limb can create a wound that the tree may not be able to close. The older and larger a tree becomes, the less energy it has in reserve to close wounds and defend against decay or insect attack. Pruning of mature trees is usually limited to removal of dead or potentially hazardous limbs.

Wound Dressings

Wound dressings were once thought to accelerate wound closure, protect against insects and diseases, and reduce decay. However, research has shown that dressings do not reduce decay or speed closure and rarely prevent insect or disease infestations. Most experts recommend that wound dressings not be used.

DISEASES AND INSECTS

Continual observation and monitoring of your tree can alert you to any abnormal changes. Some indicators are: excessive leaf drop, leaf discoloration, sap oozing from the trunk and bark with unusual cracks. Should you observe any changes, you should contact a Tree specialist or Certified Arborist to review the tree and provide specific recommendations. Trees are susceptible to hundreds of pests, many of which are typical and may not cause enough harm to warrant the use of chemicals. However, diseases and insects may be indication of further stress that should be identified by a professional.

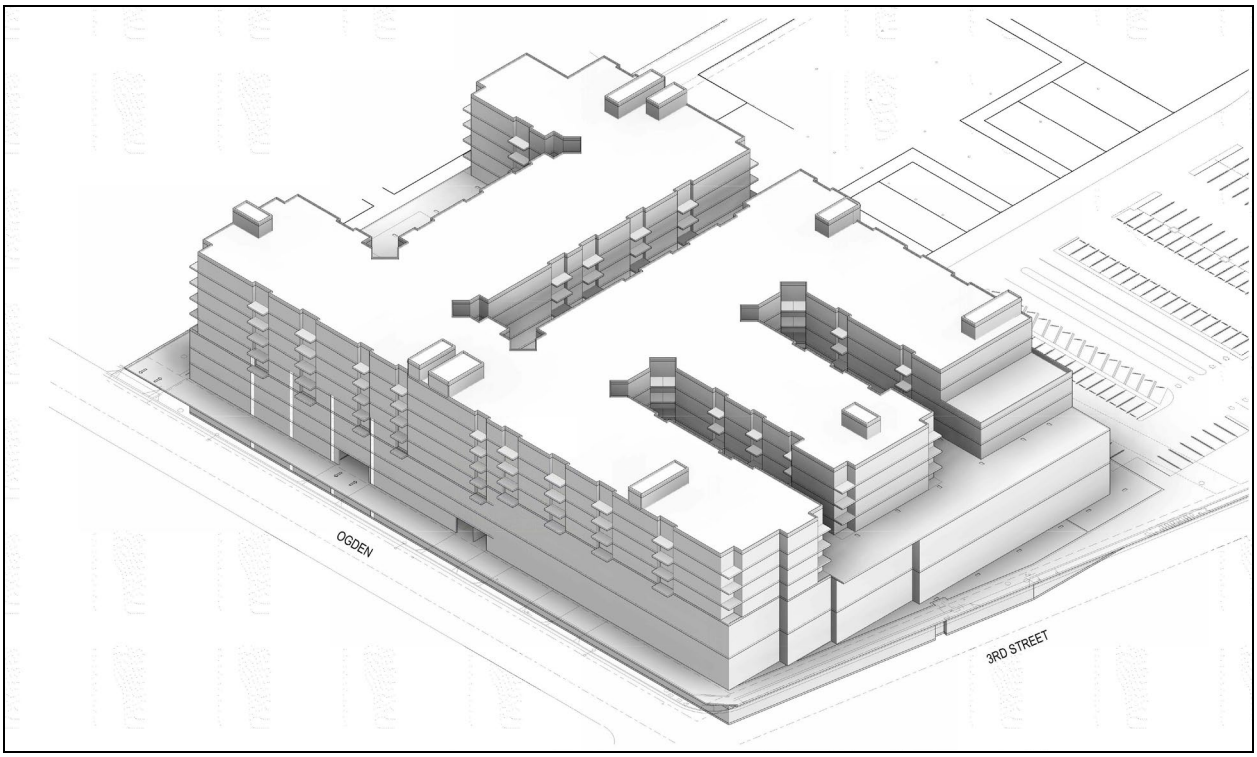
GRADE CHANGES

The growing conditions and soil level of trees are subject to detrimental stress should they be changed during the course of construction. Raising the grade at the base of a tree trunk can have long-term negative consequences. This grade level should be maintained throughout the protected zone. This will also help in maintaining the drainage in which the tree has become accustomed.

INSPECTION

The property owner should establish an inspection calendar based on the recommendation provided by the tree specialist. This calendar of inspections can be determined based on several factors: the maturity of the tree, location of tree in proximity to high-use areas vs. low-use area, history of the tree, prior failures, external factors (such as construction activity) and the perceived value of the tree to the homeowner.

6300 W. 3rd Street
Los Angeles, California



Historical Resources Technical Report

Prepared by

CONSULTING
GPA

February 2019

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Appendix A – Résumé

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EXECUTIVE SUMMARY

The purpose of this report was to determine if a proposed project (the Project) in the Wilshire Community Plan Area of the City of Los Angeles would impact any historical resources subject to the California Environmental Quality Act (CEQA). Although archaeological sites may be considered historical resources if they are listed or eligible for listing in the California Register of Historical Resources, this report was limited to historical resources that are part of the built environment.

The Project involves seven parcels bounded by W. 3rd Street to the north, S. Ogden Drive to the east, a private driveway to the south, and S. Fairfax Avenue to the west (see Figure 1). The Project site comprises four abutting commercial buildings, one freestanding commercial building, and a surface parking lot. The Project involves demolishing two existing buildings, altering the elevations of three existing buildings, and constructing a new eight-story mixed-use building with three levels of above-ground parking and two subterranean levels of parking. GPA Consulting (GPA) was retained to identify built historical resources on and in the vicinity of the Project site, to assess any potential impacts the Project may have on the identified historical resources, and to recommend mitigation measures, as appropriate. As the Project would involve new construction, GPA established a study area that includes the Project site and parcels within a 400-foot radius of the Project site to account for potential impacts on historical resources identified in the vicinity.

The existing buildings on the Project site are not currently listed under national, state, or local landmark or historic district programs and are not identified as significant in any previous historic resource surveys of the area. Furthermore, analysis in this report confirms that there are no historic resources on the Project site. However, there are ten listed and potential historical resources in the study area. These include one property designated as a Los Angeles Historic-Cultural Monument as well as three properties and one historic district listed or identified as eligible for listing in the National Register of Historic Places, California Register of Historical Resources, and/or as a Los Angeles Historic-Cultural Monument or Historic Preservation Overlay Zone. Out of an abundance of caution, for the purposes of this analysis, individual properties and contributing properties to historic districts identified as eligible for federal, state, or local historic designation through SurveyLA were presumed to be historical resources.

The threshold for determining significant impacts on historical resources in the State CEQA Guidelines is whether the proposed project would cause a substantial adverse change, which is defined as demolition, destruction, relocation, or alteration of the resource or its immediate vicinity such that the historical resource is materially impaired and no longer conveys its significance. As the existing buildings on the Project site that would be removed and the other buildings that would be altered are not historical resources, the Project would have no direct impacts on historical resources.

The indirect impacts the Project could have on the historical resources in the study area were also analyzed. It was concluded that the Project would have no significant impact on the ten identified historical resources. The Project would introduce a new visual element to the immediate surroundings of the historical resources in the study area; however, the Project would not result in a substantial adverse change to the integrity of these historical resources to the degree that they would no longer be eligible for listing as historical resources defined by CEQA. Therefore, no mitigation is required or recommended.

1. INTRODUCTION

1.1 Purpose and Qualifications

The purpose of this report is to analyze whether or not a proposed development project (the Project) would impact historical resources. The Project involves seven parcels bounded by W. 3rd Street to the north, S. Ogden Drive to the east, a private driveway to the south, and S. Fairfax Avenue to the west (see Figure 1). The Project site is located in the Wilshire Community Plan Area, and comprises four abutting commercial buildings, one freestanding commercial building, and a surface parking lot. The Project involves demolishing two existing buildings, altering the elevations of three existing buildings, and constructing a new eight-story mixed-use building with above and below ground parking.

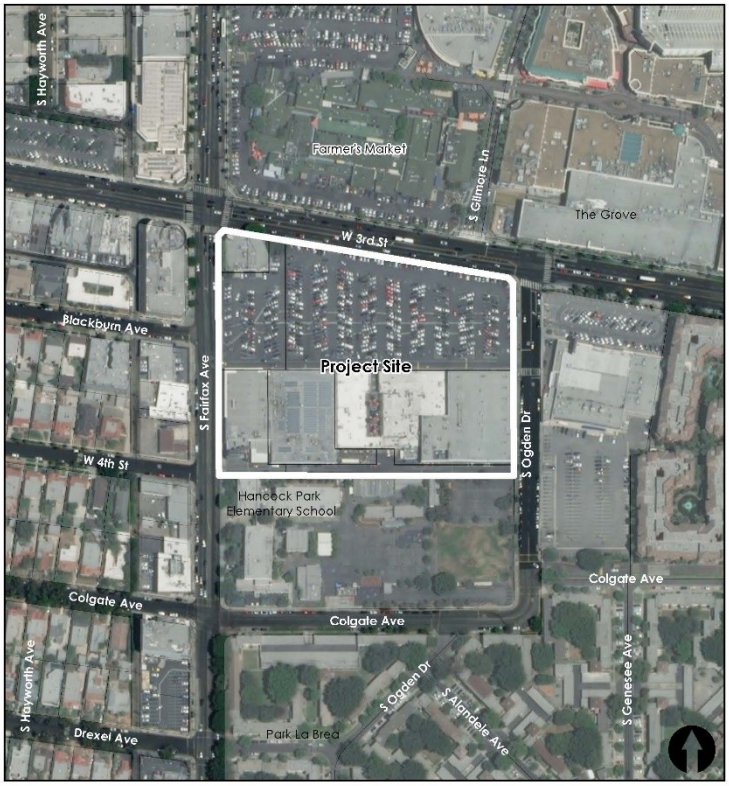


Figure 1: Location of Project site

GPA Consulting (GPA) was retained to identify historical resources on and in the vicinity of the Project site, to assess any potential impacts the Project may have on the identified historical resources, and to recommend mitigation measures, if warranted, for compliance with the California Environmental Quality Act (CEQA). Although archaeological sites may be considered historical resources if they are listed or eligible for listing in the California Register of Historical Resources, this report was limited to historical resources that are part of the built environment.

Allison M. Lyons was responsible for the preparation of this report. She fulfills the qualifications for a historic preservation professional outlined in Title 36 of the Code of Federal Regulations, Part 61. Her résumé is attached in Appendix A.

1.2 Methodology

To identify historical resources and assess potential Project impacts, GPA performed the following tasks:

1. Conducted a field inspection of the Project site and vicinity to determine the scope of the study. As the Project involves new construction, the study area was identified as the Project site and a radius capturing parcels within 400 feet of the Project site (see Appendix B). This 400-foot radius was established to account for indirect impacts on historical resources identified in the vicinity. Historical resources beyond this radius were not included in the study area because the Project would have no potential to directly or indirectly impact these resources or their setting. The buildings and streets immediately surrounding the Project site create a geographic and visual separation between the parcels beyond the study area and the Project site. The Project site, therefore, cannot be reasonably considered part of the environmental setting of historical resources beyond the study area due to this intervening space.

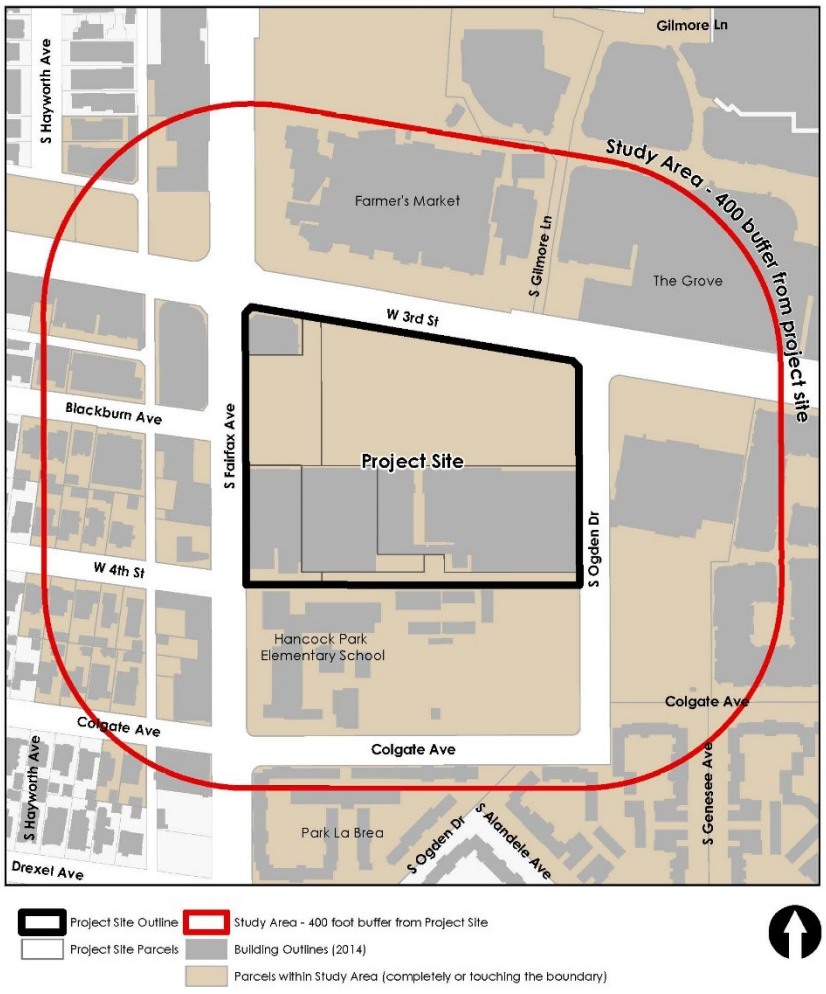


Figure 2: Project site and 400-foot buffer study area

2. Requested a records search from the South Central Coastal Information Center to determine whether or not the Project site contains any properties that are currently listed as landmarks under national, state, or local programs and whether or not any properties have been previously identified or evaluated as historical resources. This involved a review of the California Historical Resources Inventory System (CHRIS), which includes data on properties listed and determined eligible for listing in the National Register of Historic Places, listed and determined eligible for listing in the California Register of Historical Resources, California Registered Historical Landmarks, Points of Historical Interest, as well as properties that have been evaluated in historic resources surveys and other planning activities. This research revealed that while there are no buildings on the Project site included in CHRIS, three historical resources are located within the study area:

    - Hancock Park Elementary School, 408 S. Fairfax Ave.
    - Farmer's Market, 6333 W. 3rd St.
    - Park La Brea Historic District

    A description of these historical resources can be found in Section 3.2.

3. Consulted the Los Angeles Historic Resources Inventory website, HistoricPlacesLA.org, to determine if any properties within the study area are designated Los Angeles Historic-Cultural Monuments or Historic Preservation Overlay Zones. This research revealed one Los Angeles Historic-Cultural Monument (HCM) in the study area:

    - Farmer's Market, 6333 W. 3rd St., HCM #543

    A description of this historical resource can be found in Section 3.2.

4. Consulted the findings of SurveyLA, the citywide historic resources survey of Los Angeles, to determine if any properties within the study area were identified as potential historical resources. This research revealed that SurveyLA identified one building and two historic districts in the study area as potential historical resources.

    - 431 S. Fairfax Ave/433 S. Fairfax Ave.
    - 4th Street-Colgate Avenue Residential Historic District
    - Park La Brea Historic District

    A description of these potential historical resources and their eligibility can be found in Section 3.2.

5. Determined that all of the buildings on the Project site were more than 45 years of age and required evaluation as potential historical resources.

6. Photographed and assessed the general condition and physical integrity of the buildings on the Project site during the field inspection.

7. Conducted research into the history of the buildings on the Project site. Dates of construction and subsequent alterations were determined by the building permit record, as well as additional sources, such as the Los Angeles County Office of the Assessor records, newspaper articles, and historic maps.

8. Consulted the Context/Theme/Property Type (CTP) eligibility standards formulated for the *Los Angeles Citywide Historic Context Statement* to identify the appropriate CTPs under which to evaluate the buildings.

9. Reviewed and analyzed ordinances, statutes, regulations, bulletins, and technical materials relating to federal, state, and local historic preservation designations, and assessment processes and programs to evaluate the significance and integrity of the buildings as potential historical resources.

10. Reviewed and analyzed the conceptual plans and related documents to determine if the Project would have an indirect impact on the identified historical resources as defined by CEQA (see Appendix C: Conceptual Plans).

2. REGULATORY FRAMEWORK

Generally, a lead agency must consider a property a historical resource under CEQA if it is eligible for listing in the California Register of Historical Resources (California Register). The California Register is modeled after the National Register of Historic Places (National Register). Furthermore, a property is presumed to be historically significant if it is listed in a local register of historical resources or has been identified as historically significant in a historic resources survey (provided certain criteria and requirements are satisfied) unless a preponderance of evidence demonstrates that the property is not historically or culturally significant.[1] The National Register, California Register, and local designation programs are discussed below.

2.1 National Register of Historic Places

The National Register is "an authoritative guide to be used by federal, state, and local governments, private groups, and citizens to identify the nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[2]

Criteria

To be eligible for listing in the National Register, a property must be at least 50 years of age (unless the property is of "exceptional importance") and possess significance in American history and culture, architecture, or archaeology. A property of potential significance must meet one or more of the following four established criteria: [3]

A. Associated with events that have made a significant contribution to the broad patterns of our history; or

B. Associated with the lives of persons significant in our past; or

C. Embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. Yield, or may be likely to yield, information important in prehistory or history.

[1] Public Resources Code §5024.1 and 14 California Code of Regulations §4850 & §15064.5(a)(2).
[2] Title 36 Code of Federal Regulations Part 60.2.
[3] Title 36 Code of Federal Regulations Part 60.4.

Context

To be eligible for listing in the National Register, a property must be significant within a historic context. *National Register Bulletin #15* states that the significance of a historic property can be judged only when it is evaluated within its historic context. Historic contexts are "those patterns, themes, or trends in history by which a specific...property or site is understood and its meaning...is made clear."[4] A property must represent an important aspect of the area's history or prehistory and possess the requisite integrity to qualify for the National Register.

Integrity

In addition to possessing significance within a historic context, to be eligible for listing in the National Register a property must have integrity. Integrity is defined in *National Register Bulletin #15* as "the ability of a property to convey its significance."[5] Within the concept of integrity, the National Register recognizes the following seven aspects or qualities that in various combinations define integrity: feeling, association, workmanship, location, design, setting, and materials. Integrity is based on significance: why, where, and when a property is important. Thus, the significance of the property must be fully established before the integrity is analyzed.

Historic Districts

The National Register includes significant properties, which are classified as buildings, sites, districts, structures, or objects. A historic district "derives its importance from being a unified entity, even though it is often composed of a variety of resources. The identity of a district results from the interrelationship of its resources, which can be an arrangement of historically or functionally related properties."[6]

A district is defined as a geographically definable area of land containing a significant concentration of buildings, sites, structures, or objects united by past events or aesthetically by plan or physical development.[7] A district's significance and historic integrity should help determine the boundaries. Other factors include:

- Visual barriers that mark a change in the historic character of the area or that break the continuity of the district, such as new construction, highways, or development of a different character;
- Visual changes in the character of the area due to different architectural styles, types, or periods, or to a decline in the concentration of contributing resources;
- Boundaries at a specific time in history, such as the original city limits or the legally recorded boundaries of a housing subdivision, estate, or ranch; and
- Clearly differentiated patterns of historical development, such as commercial versus residential or industrial.[8]

[4] *National Register Bulletin #15: How to Apply the National Register Criteria for Evaluation* (Washington D.C.: National Park Service, Department of the Interior, 1997), 7-8.
[5] *National Register Bulletin #15*, 44-45.
[6] Ibid, 5.
[7] Title 36 Code of Federal Regulations Part 60.3(d).
[8] *National Register Bulletin #21: Defining Boundaries for National Register Properties Form* (Washington D.C.: U.S. Department of the Interior, 1997), 12.

Within historic districts, properties are identified as contributing or noncontributing. A contributing building, site, structure, or object adds to the historic associations, historic architectural qualities, or archeological values for which a district is significant because:

- It was present during the period of significance, relates to the significance of the district, and retains its physical integrity; or
- It independently meets the criterion for listing in the National Register.[9]

2.2 California Register of Historical Resources

In 1992, Governor Wilson signed Assembly Bill 2881 into law establishing the California Register. The California Register is an authoritative guide used by state and local agencies, private groups, and citizens to identify historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse impacts.[10]

The California Register consists of properties that are listed automatically as well as those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed in the National Register and those formally Determined Eligible for the National Register;
- State Historical Landmarks from No. 0770 onward; and
- Those California Points of Historical Interest that have been evaluated by the State Office of Historic Preservation (SOHP) and have been recommended to the State Historical Resources Commission for inclusion on the California Register.[11]

Criteria and Integrity

For those properties not automatically listed, the criteria for eligibility of listing in the California Register are based upon National Register criteria, but are identified as 1-4 instead of A-D. To be eligible for listing in the California Register, a property generally must be at least 50 years of age and must possess significance at the local, state, or national level, under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or
2. It is associated with the lives of persons important to local, California, or national history; or
3. It embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values; or
4. It has yielded, or has the potential to yield, information important in the prehistory or history of the local area, California, or the nation.

[9] *National Register Bulletin #16: How to Complete the National Register Registration Form* (Washington D.C.: U.S. Department of the Interior, 1997), 16.
[10] Public Resources Code §5024.1 (a).
[11] Public Resources Code §5024.1 (d).

Properties eligible for listing in the California Register may include buildings, sites, structures, objects, and historic districts. A property less than 50 years of age may be eligible if it can be demonstrated that sufficient time has passed to understand its historical importance. While the enabling legislation for the California Register is less rigorous with regard to the issue of integrity, there is the expectation that properties reflect their appearance during their period of significance.[12]

The California Register may also include properties identified during historic resource surveys. However, the survey must meet all of the following criteria:[13]

1. The survey has been or will be included in the State Historic Resources Inventory;
2. The survey and the survey documentation were prepared in accordance with SOHP procedures and requirements;
3. The resource is evaluated and determined by the SOHP to have a significance rating of Category 1 to 5 on a DPR Form 523; and
4. If the survey is five or more years old at the time of its nomination for inclusion in the California Register, the survey is updated to identify historical resources that have become eligible or ineligible due to changed circumstances or further documentation and those that have been demolished or altered in a manner that substantially diminishes the significance of the resource.

SOHP Survey Methodology

The evaluation instructions and classification system prescribed by the SOHP in its *Instructions for Recording Historical Resources* provide a Status Code for use in classifying potential historical resources. In 2003, the Status Codes were revised to address the California Register. These Status Codes are used statewide in the preparation of historical resource surveys and evaluation reports. The first code is a number that indicates the general category of evaluation. The second code is a letter that indicates whether the property is separately eligible (S), eligible as part of a district (D), or both (B). There is sometimes a third code that describes some of the circumstances or conditions of the evaluation. The general evaluation categories are as follows:

1. Listed in the National Register or the California Register.
2. Determined eligible for listing in the National Register or the California Register.
3. Appears eligible for listing in the National Register or the California Register through survey evaluation.
4. Appears eligible for listing in the National Register or the California Register through other evaluation.
5. Recognized as historically significant by local government.
6. Not eligible for listing or designation as specified.
7. Not evaluated or needs re-evaluation.

[12] Public Resources Code §4852.
[13] Public Resources Code §5024.1.

The specific Status Codes referred to in this report are as follows:

2S2	Individual property determined eligible for NR by a consensus through Section 106 process. Listed in the California Register.
3CS	Appears eligible for the California Register as an individual property through survey evaluation.
3S	Appears eligible for National Register as an individual property through survey evaluation.
5S1	Individual property that is listed or designated locally.
5S3	Appears to be individually eligible for local listing or designation through survey evaluation.
7N	Needs to be reevaluated (Formerly National Register Status Code 4)

2.3 Los Angeles Cultural Heritage Ordinance

The Los Angeles City Council adopted the Cultural Heritage Ordinance[14] in 1962 and amended it in 2018 (Ordinance No. 185472). The Ordinance created a Cultural Heritage Commission and criteria for designating Historic-Cultural Monuments (HCM). The Commission comprises five citizens, appointed by the Mayor, who have exhibited knowledge of Los Angeles history, culture, and architecture. The three criteria for HCM designation are stated below:

1. The proposed HCM is identified with important events of national, state, or local history, or exemplifies significant contributions to the broad cultural, economic, or social history of the nation, state or community; or
2. The proposed HCM is associated with the lives of historic personages important to national, state or local history; or
3. The proposed HCM embodies the distinctive characteristics of a style, type, period, or method of construction; or represents a notable work of a master designer, builder, or architect whose individual genius influenced his or her age.

Unlike the National and California Registers, the Ordinance makes no mention of concepts such as physical integrity or period of significance. Moreover, properties do not have to reach a minimum age requirement, such as 50 years, to be designated as HCMs.

2.4 Los Angeles Historic Preservation Overlay Zone Ordinance

The Los Angeles City Council adopted the ordinance enabling the creation of Historic Preservation Overlay Zones (HPOZs) in 1979; Angelino Heights became Los Angeles' first HPOZ in 1983. An HPOZ is a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development. According to Section 12.20.3 of the City of Los Angeles Municipal Code, the criteria for the designation of an HPOZ are:

1. Adds to the historic architectural qualities or historic associations for which a property is significant because it was present during the period of significance, and possesses historic integrity reflecting its character at that time; or

[14] Los Angeles Administrative Code §22.171 of Article 1, Chapter 9, Division 22.

2. Owing to its unique location or singular physical characteristics, represents an established feature of the neighborhood, community or city; or

3. Retaining the building, structure, landscaping, or natural feature, would contribute to the preservation and protection of a historic place or area of historic interest in the City.

3. ENVIRONMENTAL SETTING

3.1 Description and History of the Project Site

The Project site comprises seven parcels bounded by W. 3rd Street to the north, S. Ogden Drive to the east, a private driveway to the south, and S. Fairfax Avenue to the west (see Figure 1). The Project site is located at the southeast corner of the intersection of W. 3rd Street, an east-west thoroughfare, and S. Fairfax Avenue, a north-south thoroughfare. The Project site is located in a dense, mid-rise urban area with a flat topography. The seven parcels comprising the Project site are developed with five buildings and a surface parking lot (see Figure 6).

The surrounding properties are developed with a variety of low and mid-rise commercial buildings, a public elementary school, as well as dense residential development. Construction dates range from the 1920s through 2000s. North of the Project site, separated by W. 3rd Street, is Farmer's Market, an open-air food market that opened in 1934. East of the Project site is a "big box" commercial retail store with a substantial setback from the street used as a surface parking lot. The campus of Hancock Park Elementary School, with an administration and auditorium building constructed in 1937, is located immediately to the south of the Project site, separated by a private driveway (Parcel G). West of the Project site is a combination of retail and office buildings, including the Writers Guild of America West building, separated from the Project site by S. Fairfax Avenue.



Figure 3: Illustration of Town & Country Village from the cover of matchbook for Ollie Hammond's restaurant (no date, source: oldlarestaurants.com)

The buildings on the Project site were developed in two phases by the University of Southern California (USC) between 1960 and 1962. The retail buildings replaced an earlier shopping center, the Town & Country Village, which was constructed in the early 1940s.[15] Town & Country Village was the second location of a shopping center concept originally developed in Sacramento by Jere Strizek. When Strizek and his family moved to Los Angeles, they constructed the Town & Country Village at the present location of the Project site on the southeast corner of 3rd and Fairfax. The shopping center was described as a collection of restaurants and small retail shops with a tile roof and kitschy decorative elements like wagon wheels. Farmer's Market had opened across the street in 1934 and the two marketplaces were competitive. The Town & Country Village was located in the center of the current Project site and surrounded by surface parking (see Figure 4).[16] This was a similar configuration to the current Farmer's Market north of the Project site.

[15] A building permit for the Town & Country Village could not be found; however, alterations permits from 1942 appear with the Town & Country Village shopping center name.
Los Angeles Department of Building and Safety, Building Permit No. 1942LA12023, October 13, 1942.

[16] "Town & Country Village history includes locations outside Sacramento," Valley Community Newspapers, accessed June 28, 2018, http://www.valcomnews.com/?p=17492; "6300 W. 3rd Street, Los Angeles, CA 90036, 1952," Historical Aerials, accessed June 28, 2018, http://www.historicaerials.com.

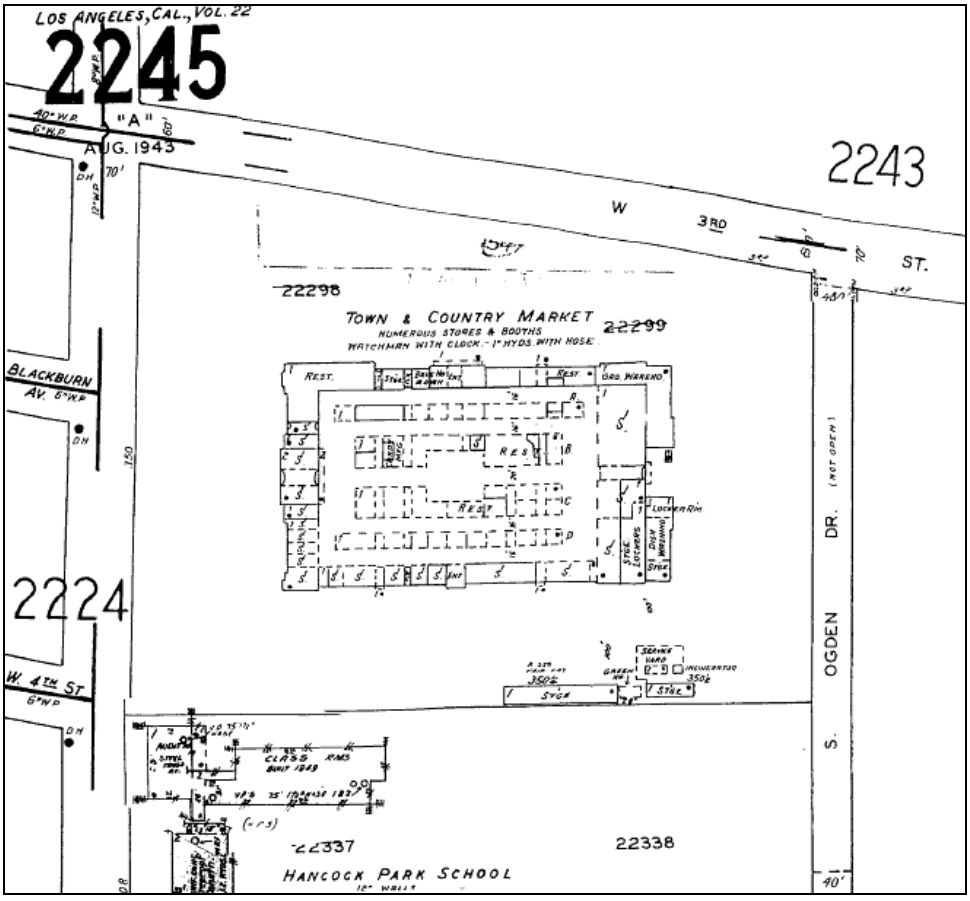


Figure 4: Sanborn map showing the footprint of the Town & Country Village at the center of the current Project site location (Sanborn Map, 1943)

In 1959, USC began plans to redevelop the 7½-acre site, which it had acquired through a donation from Captain G. Allan Hancock in the late 1930s.[17] According to the *Los Angeles Times,* "Proper usage of the property was given by a university spokesman, who asked to remain anonymous, as the reason for the razing and rebuilding of the site."[18] The Town & Country Village was completely demolished to make way for the current shopping center on the Project site.

The new development, which was also known as the Town & Country Village or Town & Country Center,[19] included a large Safeway grocery store, a large Sav-on chain drugstore, a J.J. Newberry department store, and smaller patio shops. The patio was built for many of the former Town & Country Village tenants, roughly 40 in number, who resumed 25-year leases at the newly developed property. The architecture and engineering firm of George Novikoff designed the new development.[20] The contractor was Earnest W. Hahn Inc., who was also the general contractor for the USC campus in South Los Angeles during this time.[21] The first phase of construction was the food court around the patio.[22] The J.J. Newberry Co. store was planned as

[17] Research did not reveal if USC worked with Strizek to develop the earlier Town & County development.
[18] Al Johns, "Town, Country Village Rebuilding Considered," *Los Angeles Times,* December 17, 1959, 2.
[19] Signage next to Parcel D reads "Town & Country Center."
[20] Al Johns, "Town, Country Village Rebuilding Considered," *Los Angeles Times,* December 17, 1959, 2.
[21] "Shop Center in Final Construction Phase," *Los Angeles Times,* May 6, 1962, M9.
[22] "Patio Shops, Cafes Planned for Center," *Los Angeles Times,* July 23, 1961, I10.

the firm's largest West Coast store and the building was planned as part of the second phase of construction.[23] Newberry's opened as Britts, another brand within the larger Newberry chain. The building was described as brick with raised pebble tile exterior and a *bris soleil*.[24]



Figure 5: Remodeled Town & Country Village or Center rendering (Los Angeles Times, 1960)[25]

The corner bank building located on Parcel A was constructed as part of the first phase of development. Its first tenant appears to have been Brentwood Savings & Loan, a local bank that was absorbed into City National Bank in the late 1980s.[26] No architect could be identified for the building.

Table 1: Project Site Parcels

Map Key	APN	Address	Built	Description
A	5509-018-005	6370 W. 3rd Street/ 300 S. Fairfax Avenue	1961	One Story Branch Bank
B	5509-018-004	6370 W. 3rd Street	NA	Surface Parking Lot
C	5509-018-003	6300 W. 3rd Street	NA	Surface Parking Lot
D	5509-018-009	6310 W. 3rd Street	1962	Two-Story Commercial Building and One-Story Shopping Center
E	5509-018-013	No address in ZIMAS	1961	One-Story Shopping Center
F	5509-018-012	No address in ZIMAS	1961	One-Story Shopping Center
G	5509-018-010	NA	NA	Rear Private driveway

[23] "Complete Rebuilding of Shopping Center Set," *Los Angeles Times,* May 22, 1960, M19.
[24] "Shop Center in Final Construction Phase," *Los Angeles Times,* May 6, 1962, M9; "Town and Country Job Nearing Its Completion," *Los Angeles Times,* June 23, 1963, N32.
[25] "Complete Rebuilding of Shopping Center Set," *Los Angeles Times,* May 22, 1960, M19.
[26] Los Angeles Street Directory, 1973.

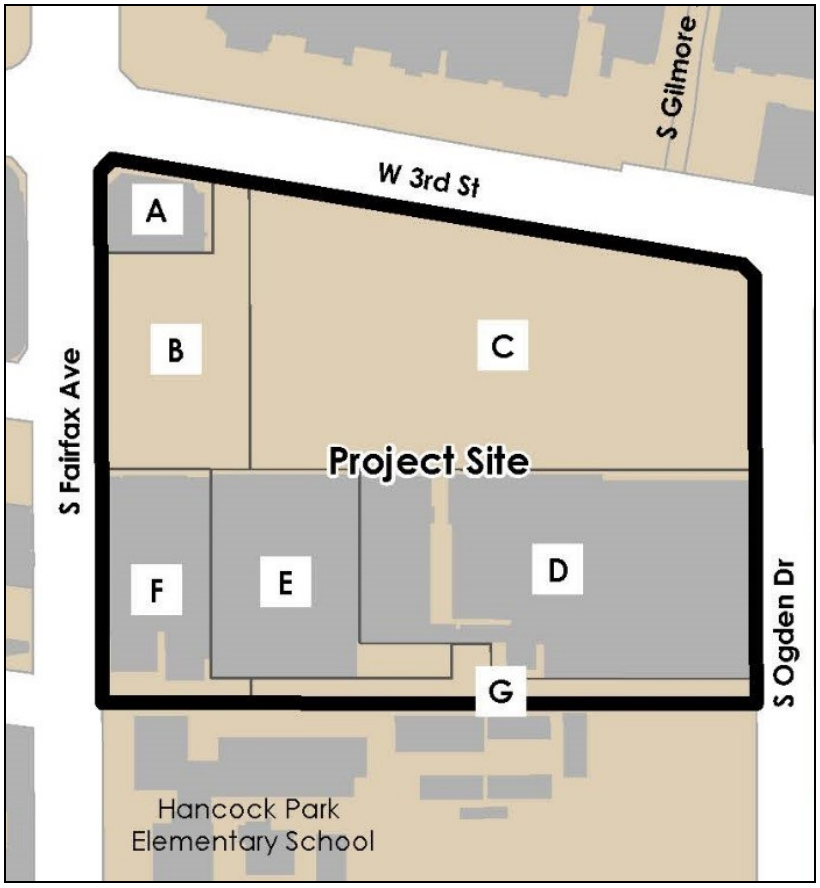


Figure 6: Project site

Parcel A

6370 W. 3rd Street/300 S. Fairfax Avenue (Parcel A) is developed as a one-story branch bank building. The building has a rectangular plan with rounded chamfered corners at its northwest, northeast, and southeast corners. North and south elevations are five bays (or panels) across. East and west elevations are four bays (or panels) across. The elevations are clad with thin, painted travertine blocks set in vertical orientations. The north, east, and west elevations feature fixed divided light windows with segmental arched fanlights. Automated teller machines (ATMs) are located in bays on the south and east elevations. The chamfered corners are fully glazed with highly reflective divided lights. A fully glazed, aluminum frame entrance is located in the southeast corner. The building has a flat room with a raised parapet.

Alterations to the building since its initial construction in 1961 appear to be the replacement of original glazing; a reconfiguration of entrances; infill of original window openings with ATMs; replacement of original signage; painting of cladding; and the addition of signage to the rooftop.[27]

[27] Los Angeles Department of Building and Safety, Building Permit No. 12048-20000-02588, November 11, 2012.



Figure 7: West elevation, view facing east from the southwest corner of 3rd Street and Fairfax Avenue (GPA, 2018)



Figure 8: East and north elevations, view facing west from 3rd Street (GPA, 2018)

Parcels B and C

Parcels B and C are developed as surface parking lots. Tall arched light posts are placed throughout the parking lots. There are scattered palm trees aligned with the pedestrian walkway through 6310 W. 3rd Street (Parcel D) and pine trees along W. 3rd Street, west of the intersection with S. Fairfax Avenue. There are no other distinctive features or design elements of note.



Figure 9: Parking lot, view facing west from the entrance on 3rd Street (GPA, 2018)



Figure 10: Parking lot, view facing southeast from the entrance on 3rd Street (GPA, 2018)

Parcel D

Parcel D is developed with multiple retail storefronts. The building has two distinct sections with distinctive designs. To the east side is a two-story plus basement "big box"-style, large volume retail store with a prominent main entrance featuring illuminated signage at the center of the north elevation (K Mart is the current tenant). The building is clad in stucco with a raised, flat parapet. Irregular fenestration along the east elevation includes bands of windows at the ground floor and the second floor, as well as a larger vertically oriented window. The south elevation faces the rear private driveway/loading dock (Parcel G) along the south end of the Project site. The west side of the building is flush with a one-story retail commercial building.

The west side of Parcel D is developed with one-story stucco building featuring multiple retail storefronts oriented around a pedestrian courtyard landscaped with palm trees and picnic tables. The retail storefronts are fully glazed aluminum sash with metal and canvas awnings lining the elevations facing the courtyard. The north elevations, oriented towards the parking lot, have a standing seam, mansard-inspired cornice.

Alterations to the building since initial construction in 1962 are extensive; including, but not limited to, the replacement of original cladding, glazing, and storefronts. The primary elevations have been altered with new signage and awnings. The K Mart building has been altered by the current tenant and reflects the corporate style and branding of K Mart; it does not retain integrity to the original 1962 design.



Figure 11: Parcel D, view facing southeast (GPA, 2018)



Figure 12: Parcel D, pedestrian walkway for shopping area on the east side of the parcel, view facing south (GPA, 2018)

Parcel E

Parcel E is developed with a one-story "big box"-style, large volume retail store with a prominent main entrance featuring illuminated signage at the center of the north elevation (current tenant is Whole Foods Market). The building is clad in stucco with a raised, front gable profile parapet at the center of its primary elevation on the north. Along the ground floor are fully glazed bands of metal frame storefronts. The east and west elevations are flush with adjacent buildings (Parcel D and Parcel F). The south elevation is oriented towards the private driveway running along the south side of the Project site.



Figure 13: Parcel E, view facing south (GPA, 2018)



Figure 14: Parcel E to the left, Parcel F in the right foreground, view facing east from Fairfax (GPA, 2018)

Alterations to the building since its initial construction in 1961 appear to include the replacement of original cladding and glazing; reconfiguration of storefronts; and replacement of original siding.

Parcel F

Parcel F is one building oriented to the parking lot at the north side of the Project and towards Fairfax Avenue along the west side of the Project site. The north side is a "big box"-style, large volume retail store (current tenant is CVS/pharmacy). The building is clad in stucco with a brick bulkhead and an upper portion that has a slight overhang above the street level storefronts along the primary (north) elevation. The storefronts are fully glazed aluminum sash. Signage is affixed to the upper portion of the primary elevation. The building has an outwardly canted cornice along its north and west elevations. The bulkhead and stucco cladding continue along the west elevation. Fenestration along the west elevation has been infilled. The center portion of west elevation has a standing seam, mansard-inspired cornice. At the east side of the rear (south) elevation, is a small rectangular building. South of the big-box volume of the CVS store is the portion of the building oriented towards Fairfax Avenue. This portion is three bays across with a façade treatment distinctively different from the CVS portion of the building. This southern portion is a square stucco volume with minimal overtures to the Mid-Century Modern style. The building features a fully glazed storefront along Fairfax Avenue. It has aluminum sliding windows along its south elevation, which is oriented towards the private driveway along the south side of the Project site. The roofline of the north and southern portions is continuous, though the southern portion does not have a cornice or awning.

Alterations to the building since its initial construction in 1961 appear to include the replacement of original cladding and glazing; reconfiguration of storefronts; and replacement of original siding. The entire roof, which was originally a folding-plate, zig-zag, has been altered to a flat surface with a cornice. The CVS portion has been altered by the current tenant and reflects the corporate style and branding of the current tenant; it does not retain integrity to the original 1961 design. The storefronts and all fenestration of the southern portion of the building have been replaced.



Figure 15: North elevation of Parcel F, view facing south from Fairfax Avenue (GPA, 2018)



Figure 16: West elevation of Parcel F, view from west side of Fairfax Avenue, facing northeast (GPA, 2018)

Parcel G

Parcel G is a wide private driveway running along the south side of the Project site. There are no distinctive features or design elements of note.



Figure 17: Parcel G (private driveway), view facing northeast from the east side of Fairfax Avenue (GPA, 2018)

3.2 Evaluation of Buildings on Project Site

The existing buildings on the Project site appear to have no potential to qualify as historical resources defined by CEQA. Based upon GPA's field inspection and research, none of the buildings on the Project site meet the eligibility standards formulated for the *Los Angeles Citywide Historic Context Statement* (LACHCS)[28] individually or collectively. Research did not reveal any associations with the lives of historic personages important to national, state or local history. None of the individuals or firms involved in the construction and design of the buildings are considered masters in their field. All of the buildings lack architectural character and are not

[28] City of Los Angeles Office of Historic Resources, *Los Angeles Citywide Historic Context Statement.* February 5, 2013.

reflective of a type, period, or method of construction. The original designs are so altered there are no relevant eligibility standards to apply from the Architecture context in the LACHCS.

Postwar Neighborhood Shopping Centers within the Commercial Development context and Neighborhood Commercial Development theme appears to be the only relevant set of eligibility standards for the evaluation of the Project site as a whole. However, the existing buildings on the Project site do not collectively meet the eligibility standards of the Postwar Neighborhood Shopping Centers (see Table 2 below) because they do not retain sufficient integrity from the period of initial construction, 1961.

Buildings eligible under this theme must retain integrity of design, materials, location, feeling, and association. The buildings on the Project site have been significantly altered. Several buildings have been altered by current tenants to match corporate branding styles. The buildings do not have architectural integrity. Original massing, significant features, and identifying details have been altered since 1961. The buildings have not been moved and thus retain integrity of location. Overall, the buildings do not retain the necessary integrity of design, materials, feeling, or association to reflect significance under this theme.

Table 2: Postwar Neighborhood Shopping Centers
Context: Commercial Development, 1850-1980
Theme: Regional Commercial Centers and Corridors 1875-1980
Sub-theme: Postwar Neighborhood Shopping Centers, 1936-1965
Property Type: Commercial District – Shopping Center (Neighborhood)
Eligibility Standards
• Constructed during the period of significance
• Arranged around the parking lot rather than the public street
• Contains design and site layout features that reflect trends in postwar neighborhood commercial planning and design
Character-Defining/Associative Features
• Retains most of the essential character-defining features from the period of significance
• May also be significant under a theme within the Architecture and Engineering context
• Features a site plan that locates the primary entrance off the parking lot rather than on the public street
• Associated with activities typical of neighborhood economic and social life
Integrity Considerations
• Should retain integrity of Design, Materials, Location, Feeling, and Association
• Setting may have changed (surrounding buildings and land uses)
• Original use(s) may have changed
• Architectural integrity should be intact, retaining original massing, significant features, and identifying details
o Some original materials may have been altered, removed, or replaced

Based upon GPA's field inspection and research, the branch bank building on Parcel A does not meet the eligibility standards for Banks (see Table 3: Bank/Saving & Loan) within the Commercial Development context and Banks and Neighborhood Commercial Development theme. While research indicates the building "was historically designed and used as a bank building" and "was constructed during the period of significance" – the only eligibility standards – it does not retain sufficient integrity from the period of initial construction, 1961.

To be eligible under this theme, a building should retain integrity of design, materials, location,

feeling, and association. The design and materials, particularly the cladding and window openings have been altered since initial construction. There are no features to identify an association with the original tenant, Brentwood Savings & Loan. Changes to circulation patterns and entrances have altered the building's relationship to the street and to neighboring structures. The building has not been moved and thus retains integrity of location. Overall, the building does not retain the necessary integrity of design, materials, feeling, or association to reflect significance under this theme.

Table 3: Bank/Saving & Loan
Context: Commercial Development, 1850-1980
Theme: Neighborhood Commercial Development, 1870-1980
Property Type: Commercial - Finance
Property Sub Type: Bank/Saving & Loan
Eligibility Standards
• Was constructed during the period of significance
• Was historically designed and used as a bank building
Character-Defining/Associative Features
• Retains most of the essential character-defining features from the period of significance
• Contains features that reflect trends in neighborhood commercial and bank design from its period of construction
• Of a style or mixture of styles typical of the 1900-1980 period
• May also be significant under themes within the Architecture and Engineering context
• Typically associated with noted architects/designers
• May reflect corporate designs associated with particular banking institutions
• Characterized by pedestrian-oriented position on the street in the pre-World War II period
• Characterized by auto-friendly site planning and facilities in the post-World War II period
• Features architectural and site-planning elements to emphasize their perceived importance
• Associated with activities typical of neighborhood economic and social life
Integrity Considerations
• Should retain integrity of Design, Materials, Location, Feeling, and Association
• Should maintain if possible original relationship to the street and to neighboring structures
• Architectural integrity should be intact, retaining original massing, significant features, and identifying details • Some original materials may have been altered, removed, or replaced, particularly in early examples
• Use may have changed
• Setting may have changed (surrounding buildings and land uses)

3.2 Historical Resources in the Project Study Area

Although there are no historical resources located on the Project site, there are ten listed and potential historical resources in the study area. Historical resources are defined as properties that are listed under national, state, or local landmark or historic district programs. Potential historical resources are defined as properties that have been identified as eligible in previously completed historic resources surveys, such as SurveyLA. For the purposes of CEQA review, individual properties and districts identified as eligible for federal, state, or local historic designation through SurveyLA are presumed to be historical resources.[29] These properties and districts were not researched or evaluated on an intensive-level by GPA to independently determine their eligibility as potential historical resources. This report does not refute any previous findings regarding the eligibility of these properties and districts as historical resources.

[29] State CEQA Guidelines §15064.5.

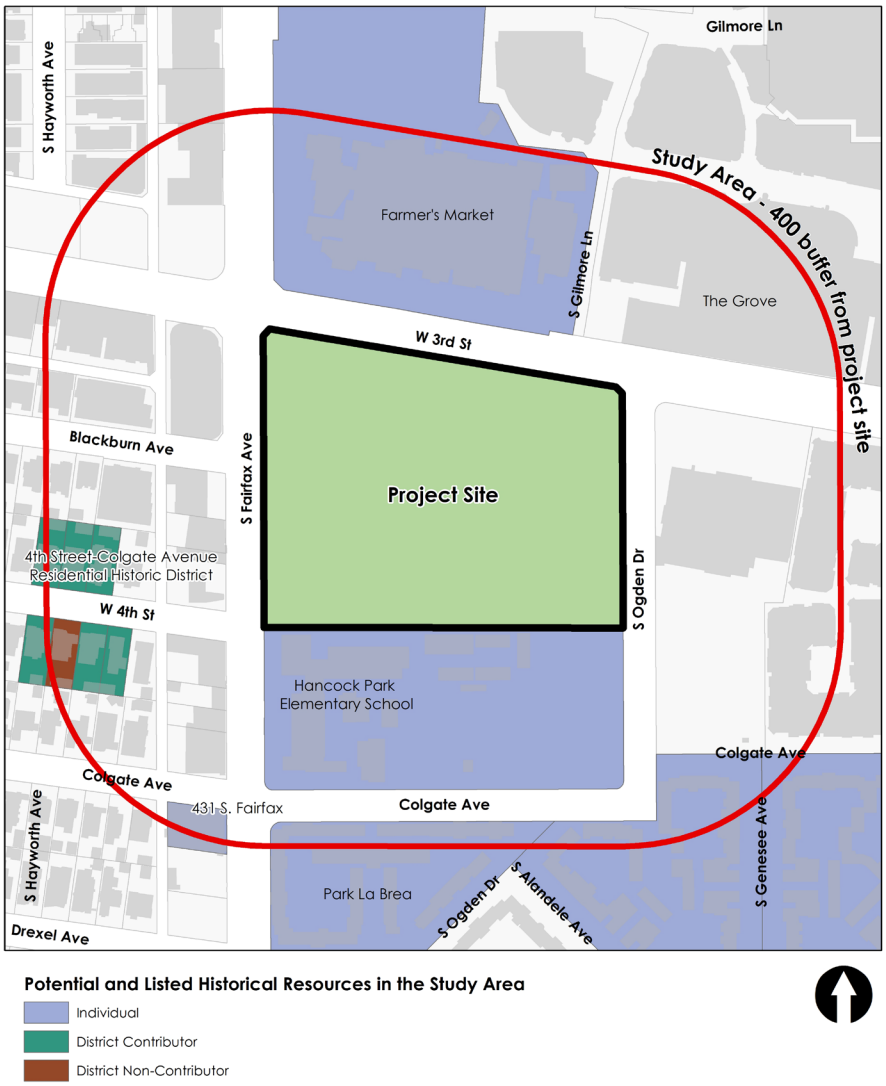


Figure 18: Potential and Listed Historical Resources in the Study Area

The ten historical resources in the study area are described below. Please see Section 2.2 for the definitions of the Status Codes associated with each historical resource.



Figure 19: Farmer's Market, view facing northeast from 3rd Street (GPA, 2018)



Figure 20: Farmer's Market, view facing north from 3rd Street (GPA, 2018)

Farmer's Market
Status Code: 5S1
HCM No. 543

Farmer's Market is located at 6333 W. 3rd Street north of the Project site. Originally called "Farmers Public Market" when it opened in 1934, it was operated by Fred Beck and Roger Dahlhjelm on land owned by E.B. Gilmore. The market evolved into a permanent venue from a vacant lot where local farmers sold their produce out of the backs of their trucks. Restaurants, ice cream stands, flower shops, and other retail stores opened at the property. Farmers Market, also known as The Original Farmers Market, is the last remnant of Gilmore commercial and recreational developments in the area north of 3rd Street that once included a drive-in movie theater, a racetrack, and a stadium.[30]

Farmers Market was designated by the City as HCM No. 543 in 1991. Properties listed under national, state, and local landmark programs were not re-evaluated by SurveyLA.

[30] Architectural Resources Group, "Historic Resources Survey Report Wilshire Community Plan Area," SurveyLA Los Angeles Historic Resources Survey, (City of Los Angeles Office of Historic Resources, January 2015) 18.



Figure 21: Park La Brea, aerial view (Herald Examiner Collection, Los Angeles Public Library, 1953)



Figure 22: Park La Brea, south of the Project site, view facing east from Colgate Avenue (GPA, 2018)

Park La Brea, Garden Apartment Historic District
Status Code: 3S/3CS/5S3

Park La Brea is located east and south of the Project site and includes multiple addresses in the study area on Colgate Avenue, S. Fairfax Avenue, and S. Orange Grove Avenue. This massive garden apartment complex was commissioned by Metropolitan Life Insurance Company and constructed between 1943 and 1951. Its buildings were designed by Leonard Schultze & Associates with Earl T. Heitschmidt. Its landscape was designed by Tommy Tomson and, in a later phase, Thomas Church. The complex is unique as a garden apartment for its inclusion of high-rise as well as low-rise multi-family residences.[31]

SurveyLA evaluated Park La Brea as appearing eligible for listing in the National Register and California Register as well as for local designation as a historic district.

[31] Architectural Resources Group, 40.



Figure 23: Hancock Park Elementary School, view facing east from Fairfax (GPA, 2018)



Figure 24: Hancock Park Elementary School, south side, view facing northwest from Colgate Avenue (GPA, 2018)

Hancock Park Elementary School
408 S. Fairfax Avenue
Status Code: 2S2

The Hancock Park Elementary School is located at 408 S. Fairfax Avenue south of the Project site. The administration and auditorium building on the campus was designed in 1937 by architect Austin Whittlesey. The Moderne-style building is constructed of board-formed concrete. It has irregular massing, combining horizontal and vertical blocks.[32] The school was expanded in 1950 and 1957 as the school-age population of the surrounding neighborhood grew with the baby boom following World War II and influx of residents with the completion of Park La Brea.[33]

The Hancock Park Elementary School was formally determined eligible for listing in the National Register, which means it was automatically listed in the California Register. Properties listed under national, state, and local landmark programs were not re-evaluated by SurveyLA.

[32] Christy McAvoy, "California Department of Parks and Recreation Form A, Hancock Park Elementary School," October 11, 1995.
[33] Architectural Resources Group, 50.



Figure 25: 431 S. Fairfax Avenue (GPA, 2018)

431-433 S. Fairfax Avenue
Status Codes: 3CS/5S3

This property is developed with a commercial building constructed in 1934 and designed by noted architectural firm Austin & Ashley. It is located southwest of the Project site. The building was evaluated by SurveyLA as an excellent example of an Art Deco style commercial building in the Wilshire area. Due to alterations including window and door replacements, the building does not retain sufficient integrity for listing in the National Register; however, it appears eligible for listing in the California Register as well as for local designation.



Figure 26: 4th Street-Colgate Avenue Residential Historic District, view facing northwest on 4th Street with 7923-7925 W. 4th Street in right foreground (GPA, 2018))

4th Street-Colgate Avenue Residential Historic District
Status Codes: 3S/3CS/5S3

Contributors Within Study Area

7920 W. 4th Street; 7918 W. 4th Street Minimal Traditional duplex constructed in 1937. It appears to be unaltered.

7925 W. 4th Street; 7923 W. 4th Street French Revival (Norman) duplex constructed in 1941. Some alterations.

7926 W. 4th Street; 7924 W. 4th Street Spanish Colonial Revival Duplex constructed in 1928. No alterations noted.

7929 W. 4th Street; 7927 W. 4th Street Spanish Colonial Revival Duplex constructed in 1935. No major alterations; security window bars added.

7933 W. 4th Street; 7931 W. 4th



Figure 27: 7931-7933 W. 4th Street, contributor to 4th Street-Colgate Avenue Residential Historic District (GPA, 2018)

Street Spanish Colonial Revival Duplex constructed in 1929. No alterations noted.

7934 W. 4th Street; 7932 W. 4th Street Spanish Colonial Revival Duplex constructed in 1928. No alterations noted.

Non-Contributor
7930 W. 4th Street; 7928 W. 4th Street Spanish Colonial Revival Duplex constructed in 1928. *Extensive alterations.*

4th Street-Colgate Avenue Residential Historic District is west of the Project site and extends outside of the study area along W. 4th Street between S. Orlando and S. Fairfax Avenues, and on Colgate Avenue between S. Orlando and S. Sweetzer Avenues. SurveyLA evaluated the historic district as appearing eligible for listing in the National Register and California Register as well as for local designation as an excellent collection of Period Revival single and multi-family residential architecture from the 1920s to the early 1950s. It was also identified for its significance as an early Jewish enclave, representing the earliest movement of the Jewish community westward from areas such as Boyle Heights in the late 1920s and early 1930s. Residences within the historic district retain their original plans, massing, scale and character-defining features predominantly of the Spanish Colonial Revival and Tudor Revival styles. The historic district's period of significance under the Architecture context is 1922 to 1953, which captures its major period of development and the time during which most of its buildings were constructed. Its period of significance for its association with the Jewish community begins in 1922, when the first residences were constructed in the district; it remains a vibrant Jewish community today.[34]

[34] Architectural Resources Group, "Consolidated Data Report Wilshire Community Plan Area," SurveyLA Los Angeles Historic Resources Survey, (City of Los Angeles Office of Historic Resources, February 2015).

4. PROJECT IMPACTS

4.1 Determining the Significance of Impacts on Historical Resources

The State CEQA Guidelines set the standard for determining the significance of impacts to historical resources in Title 14 California Code of Regulations Section 15064.5(b), which states:

> A project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

Title 14 California Code of Regulations Section 15064.5(b)(1) further clarifies "substantial adverse change" as follows:

> Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

Title 14 California Code of Regulations Section 15064.5(b)(2) in turn explains that a historical resource is "materially impaired" when a project:

> Demolishes or materially alters in an adverse manner those physical characteristics that convey its significance and that justify its inclusion in or eligibility for inclusion in the California Register, local register, or its identification in a historic resources survey.

The following factors are set forth in the City of Los Angeles' "L.A. CEQA Thresholds Guide," which states that a project would normally have a significant impact on a historical resource if it would result in a substantial adverse change in the significance of the historical resource. A substantial adverse change in significance occurs if the project involves:

- Demolition of a significant resource;
- Relocation that does not maintain the integrity and (historical/architectural) significance of a significant resource;
- Conversion, rehabilitation, or alteration of a significant resource which does not conform to the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings; or
- Construction that reduces the integrity or significance of important resources on the site or in the vicinity.

As such, the test for determining whether or not a proposed project will have a significant impact on an identified historical resource is whether or not the project will alter in an adverse manner the physical integrity of the historical resource such that it would no longer be eligible for listing in the National or California Registers or other landmark programs such as the list of HCMs.

4.2 Project Description

The Applicant proposes to develop an eight-story mixed-use building on the Project site. The Project would involve the demolition of the existing big-box commercial building on Parcel D and the portion of the surface parking lot north of the building on Parcel C. The maximum building height for the new mixed-use building would be approximately 100 feet above grade or eight stories. There will be two levels of subterranean parking. The Project's retail commercial uses would be located on the first floor in the northern half of the building fronting W. 3rd Street and the remaining western portion of the parking lot on Parcel C. Upper floors four through eight will be residential. Existing buildings on the western portion of the Project site are to remain and are not considered part of the Project work scope (see Appendix C: Conceptual Plans).

4.3 Analysis of Project Impacts

The Project would have no direct impacts on historical resources. There are no historical resources on the Project site and no historical resources would be demolished, destroyed relocated, or altered as a result of the Project. Therefore, this report only analyzes the potential for the Project to result in indirect impacts on the historical resources in the vicinity. As described in Section 3.2 above, there are ten listed and potential historical resources in the study area. These historical resources are located to the north, west, and south of the Project site.

In determining the potential impact of adjacent new construction on the historical resources in the study area, the central question is whether the new building would cause a "material impairment" to the significance of the nearby historical resource.[35] Material impairment occurs where a project demolishes or alters the physical characteristics that convey the significance of a historical resource and that justify its inclusion in or eligibility of inclusion in national, state, or local landmark or historic district programs pursuant to the requirements of CEQA. Such an effect would only occur if the historical resources in the study area no longer retained sufficient integrity to convey their significance. The significance of each historical resource in the study area is described in Section 3.2.

According to *National Register Bulletin #15*, there are seven aspects of integrity: feeling, association, workmanship, location, design, setting, and materials. Because the proposed Project will not alter the physical features of the historical resources in the study area, the only relevant aspect with respect to the impact of the new building on these historical resources is setting. Setting refers to the character of the place in which the historical resource is situated within the boundaries of the property or historic district as well as the resource's broader surroundings. This analysis considers whether the integrity of setting of the historical resources in the study area would be so diminished by the new construction that they would no longer qualify as historical resources under national, state, or local landmark or historic district programs.

The historical resource to the north of the Project site is Farmer's Market. Farmer's Market is physically separated from the Project site by W. 3rd Street, a heavily trafficked east-west thoroughfare. The Farmer's Market is also visually separated from the Project site by the width of the street and the landscape features along the perimeter of both the north side of the Project site and the south side of Farmer's Market. Though Farmer's Market is a historical resource, a portion along 3rd Street, across from the Project site, has been demolished and is being redeveloped with a larger building (see Figure 28).

[35] Pub. Res. Code § 21084.1; CEQA Guidelines § 15064.5(b).

See Figure 29, Figure 30, and Figure 31 for views of the Project site from Farmer's Market.



Figure 28: View northeast from Project site towards Farmer's Market. The area of Farmer's Market under construction is on the right side of the image (GPA, 2018)



Figure 29: View southeast from Farmer's Market towards Project site (GPA, 2018)



Figure 30: View southeast from Farmer's Market clock tower towards the Project site (GPA, 2018)



Figure 31: View east from Farmer's Market towards Project site (GPA, 2018)

As such, the 3rd Street frontage of Farmer's Market is in the process of being altered and does not retain integrity. The portion of Farmer's Market closest to the Project site is not an intact portion of the historical resource and does not contribute to its significance. The Project would not have a significant impact on the setting of the portions of Farmer's Market that contribute to its ability to convey its significance as a historical resource. The Project site is not visible from the significant spaces of Farmer's Market. The Project would not have any impact on the physical characteristics that convey the resource's historic significance and justify its inclusion in, or eligibility for, applicable landmark designation programs.

The historical resources to the west are separated from the Project site by S. Fairfax Avenue. These resources include 431-33 S. Fairfax Avenue, a commercial building (Figure 25), and six contributors to the 4th Street-Colgate Avenue Residential Historic District (Figure 26 and Figure 27). Because the Project site is located across the street, the relationships between these buildings would remain intact and would not be changed by the Project. S. Fairfax Avenue is characterized by a variety of development. Moreover, the building proposed for the Project site is physically separated from S. Fairfax Avenue by buildings on Parcels A, B, C, E, and F that will not be demolished as part of the Project. The proposed Project would not affect the number of

buildings in the historic district, the ratio of contributing to non-contributing buildings, or the relationships between the historic districts' other significant features. Although the Project introduces a new visual element to the area east of these historical resources, the relationships between the buildings, other significant features, and surrounding streets would remain largely intact. The Project would not have any impact on the physical characteristics that convey the resources' historic significance and justify their inclusion in, or eligibility for, applicable landmark and historic district designation programs.



Figure 32: View facing south from S. Ogden Drive. In the foreground right is the building on Parcel D. In the background right is the rear blacktop of the Hancock Park Elementary School (GPA, 2018).

Two historical resources are located south of the Project site: the Hancock Park Elementary School and a very small northern portion of Park La Brea. The Hancock Park Elementary School is physically separated from the Project site by the private driveway comprising Parcel G. The school is primarily oriented towards S. Fairfax Avenue. The campus is surrounded by dense landscaping and fencing. Portions of the campus closest to the proposed new building are surface blacktop areas fronting S. Ogden Avenue and temporary modular trailers, which do not contribute to the significance of the school as a historical resource. The main school building is located more than 100 feet from the proposed new building. Thus, there is no potential for the construction activities, including the excavation and shoring of the subterranean parking levels, to impact historic features that convey the building's significance as a historical resource. The views of this historical resource from S. Fairfax Avenue would not be obscured as a result of the Project. The historical resource is not visible from W. 3rd Street due to the height of buildings currently on the Project site (see Figure 32). Therefore, all current views of the Hancock Park Elementary School south of the Project site would remain highly visible and the Project would not have any impact on the physical characteristics that convey the resource's historic significance and justify its inclusion in, or eligibility for, applicable landmark designation programs.



Figure 33: View facing north from Park La Brea on Colgate Avenue, across from the Hancock Park Elementary School towards the Project site (GPA, 2018)

Park La Brea is a massive garden apartment complex. The southern boundary of the study area crosses only its most northern parcels at 401 S. Orange Grove, 6200 Colgate Avenue, and 430 S. Fairfax Avenue. The views of this historical resource from the surrounding blocks, including the views from S. Fairfax Avenue along its eastern boundary, Colgate Avenue at its northern boundary, and W. 6th Street (outside study area) at its southern boundary, would also not be obscured as a result of the Project. Buildings located within Park La Brea are not visible from S. Ogden Avenue at the eastern boundary of the Project site, due to the blacktop space at the rear of the parcel containing the Hancock Park Elementary School campus (see Figure 33). Moreover, the northern boundary of Park La Brea, along Colgate Avenue, is predominantly used for vehicular circulation and is not a primary view of the complex that contributes to its significance. Therefore, Park La Brea, the historical resource to the south of the Project site, would remain highly visible and the Project would not have any impact on the physical characteristics that convey the resource's historic significance and justify its inclusion in, or eligibility for, applicable landmark designation programs

In conclusion, while the Project would introduce a new visual element to the study area it would not affect the setting of any of the identified historical resources. Because the historical resources to the north and west are separated from the Project site by major thoroughfares, the new building would not change the relationships between these buildings and their surroundings. These historical resources would also remain highly visible. The Project also would not obscure the important views of Park La Brea, the historical resource to the south. The only historical resource adjacent to the Project site is the Hancock Park Elementary School campus to the south. The Project would be located on a parcel separate from the campus, and the proposed mixed-use building would not directly abut any of the school's historically significant features (including the administration and auditorium building), which are on the western portion of the school site, oriented toward Fairfax Avenue. Thus, the new building would not destroy the historic materials, features or spatial relationships of this historical resource. If the new building were removed in the future, the adjacent historical resource would not be materially affected. The essential form and integrity of the historical resource and its immediate environment would be unimpaired.

5. CONCLUSIONS

The Project would have no direct impacts on historical resources. There are no historical resources on the Project site and no historical resources would be demolished, destroyed, altered, or relocated as a result of the Project. Indirect impacts on historical resources were also analyzed. The Project would have a less than significant impact on the ten historical resources in the study area. The new building would introduce a new visual element to the immediate surroundings of these historical resources; however, the Project would not result in a substantial adverse change to the integrity of the ten historical resources to the degree that they would no longer be eligible for listing as historical resources defined by CEQA. Therefore, no mitigation is required or recommended.

6. SOURCES

"6300 W. 3rd Street, Los Angeles, CA 90036, 1952." Historic Aerials, accessed June 28, 2018, http://www.historicaerials.com.

"Town & Country Village history includes locations outside Sacramento." Valley Community Newspapers, accessed June 28, 2018, http://www.valcomnews.com/?p=17492.

Architectural Resources Group. "Consolidated Data Report Wilshire Community Plan Area." SurveyLA Los Angeles Historic Resources Survey. City of Los Angeles Office of Historic Resources: February 2015.

Architectural Resources Group. "Historic Resources Survey Report Wilshire Community Plan Area." SurveyLA Los Angeles Historic Resources Survey. City of Los Angeles Office of Historic Resources: January 2015.

California Code of Regulations, California Office of Administrative Law, State of California Government.

City of Los Angeles Department of Building and Safety. Building Permits. Various Dates.

Code of Federal Regulations, Title 36: Parks, Forests, and Public Property. Office of the Federal Register, National Archives and Records Administration, United States Government.

Historic Resources Group. "Historic Resources Survey Report: Central City North Community Plan Area," SurveyLA Los Angeles Historic Resources Survey, City of Los Angeles Office of Historic Resources, September 2016.

Los Angeles Department of Building and Safety, various dates.

Los Angeles Street Directory, various Dates.

Los Angeles Times, various articles.

McAvoy, Christy. "California Department of Parks and Recreation Form A, Hancock Park Elementary School." October 11, 1995.

National Register Bulletin #15: How to Apply the National Register Criteria for Evaluation. Washington D.C.: National Park Service, 2002,

National Register Bulletin #16: How to Complete the National Register Registration Form. Washington D.C.: National Park Service, 1997.

National Register Bulletin #21: Defining Boundaries for National Register Properties Form. Washington D.C.: U.S. Department of the Interior, 1997.

Sanborn Map Company. *Los Angeles,* various dates.

Appendix A - Résumé



ALLISON M. LYONS is an Associate Architectural Historian at GPA. She has been involved in the field of historic preservation since 2007. Allison's experience with GPA has included the preparation of CEQA and Section 106 reports for numerous projects throughout the state, Historic American Buildings Survey/Historic American Engineering Record reports for properties including the Wilshire I. Magnin Department Store and La Loma Bridge, and National Register of Historic Places nominations for a variety of property types, including the Great Wall of Los Angeles. Allison has also contributed to a number of large-scale historic resources surveys and context statements including the West Hollywood Commercial Historic Resources Survey and Context Statement, Postwar Development and Architecture in Fremont Historic Context Statement, and several architectural and cultural themes for the Los Angeles Citywide Historic Context Statement. She has also conducted architectural surveys for several buildings including the Farmers & Merchants Bank Building and Hollywood Roosevelt Hotel.

Educational Background:

- M.S., Historic Preservation, Columbia University, 2010
- B.A., European Studies, Scripps College, 2006

Professional Experience:

- GPA Consulting, Associate Architectural Historian, 2015-Present
- Chattel Inc., Associate Architectural Historian, 2013-2015
- Architectural Resources Group, Architectural Historian, 2010-2013
- Mellon Graduate Fellowship in Primary Sources, Columbia University, 2009-2010

Qualifications:

- Meets the Secretary of the Interior's Professional Qualifications Standards for history and architectural history pursuant to the Code of Federal Regulations, 36 CFR Part 61, Appendix A.
- Advisory Council on Historic Preservation, Section 106 Essentials

Professional Activities:

- Urban Land Institute, Young Leader's Group, 2014-Present
- Graduate School of Architecture, Planning, and Preservation at Columbia University, Alumni Board Member, 2013-Present

Selected Projects:

- Pico & Hope, Los Angeles, CEQA Historical Resource Report, 2018
- Sunset & Western, Los Angeles, CEQA Historical Resource Report, 2017
- Hollywood Roosevelt, Los Angeles, Preservation Plan, 2017
- Farmers & Merchants Bank Building, Los Angeles, Preservation Plan, 2017
- SurveyLA, African American Historic Context Statement, 2017
- Los Angeles Wholesale Flower Terminal, Los Angeles, Historical Resource Evaluation Report, 2017
- Vermont Corridor Development, Historical Resources Evaluation Report, 2017
- Art Center College of Art, Pasadena, CEQA Historical Resource Report, 2016
- 2222 S. Figueroa Street, Los Angeles, CEQA Historical Resource Report, 2016
- 1440-52 Gordon Street, Los Angeles, Historical Resource Evaluation Report, 2016
- 8430 Reseda Boulevard, Los Angeles, Historical Resource Evaluation Report, 2016
- City of Hope Master Plan, Duarte, CEQA Historical Resource Report, 2015-2016
- SurveyLA, Jewish Historic Context Statement, 2016
- Chicano Moratorium in Los Angeles, Multiple Property Documentation Form, 2015-2016
- La Loma Bridge, Pasadena, HAER Documentation, 2015
- Fremont Mid-Century Historic Context Statement, 2015

Appendix B: Properties in the Project Study Area

The study area includes 77 uniquely numbered parcels, including those comprising the Project site; however, this number includes several condominiums. All of the parcels in the study area outside of the Project site are listed below in Table 4.

Table 4: Properties in the Study Area

APN	Address	Built	Description	CHRIS	SurveyLA
5509-003-010	401 S Orange Grove Ave (Park La Brea)	1943	Multi-Family Residential	No record (3S associated with other addresses for the property)	Part of Park La Brea Garden Apartment Historic District
5509-003-012	6200 Colgate Ave (Park La Brea)	1943	Multi-Family Residential	No record (3S associated with other addresses for the property	Part of Park La Brea Garden Apartment Historic District
5509-003-014	430 S Fairfax Ave (Park La Brea)	1943	Multi-Family Residential	No record (3S associated with other addresses for the property	Part of Park La Brea Garden Apartment Historic District
5509-003-017	6298 W 3rd St	1953	Shopping Centers (Neighborhood, Community)	No record	No record
5509-003-018	6220 W 3rd St	2002	Multi-Family Residential	N/A	N/A
5509-018-902	408 S Fairfax Ave	1937, 1950, 1957	Hancock Park Elementary School	2S2	No record
5510-001-028	6318 Colgate Ave	1927	Single-Family Residential	No record	No record
5510-001-029	6314 Colgate Ave	1927	Single-Family Residential	No record	No record
5510-001-030	431 S Fairfax Ave; 433 S Fairfax Ave	1934	Hotel & Motels	No record	3CS;5S3
5511-025-012	157 S Fairfax Ave	1992	Warehousing, Distribution, Storage	N/A	N/A
5511-025-017	162 S Hayworth Ave	1931	Multi-Family Residential	No record	No record
5511-025-056, 5511-025-057, 5511-025-058, 5511-025-059, 5511-025-060, 5511-025-061, 5511-025-062, 5511-025-063, 5511-025-064, 5511-	166 S Hayworth Ave	1982	Multi-Family Residential	N/A	N/A

Table 4: Properties in the Study Area					
APN	**Address**	**Built**	**Description**	**CHRIS**	**SurveyLA**
025-065, 5511-025-066, 5511-025-067					
5511-026-005	No Address	2012	Parking Lots (Commercial Use Properties)	N/A	No record
5511-026-006	7933 W 3rd St	2012	Parking Lots (Commercial Use Properties)	N/A	No record
5511-026-012	175 S Fairfax Ave	2012	Shopping Centers (Neighborhood, Community)	N/A	N/A
5511-027-001	7911 Blackburn Ave	1947	Multi-Family Residential	No record	No record
5511-027-002	7929 Blackburn Ave	1947	Multi-Family Residential	No record	No record
5511-027-016	7930 W 3rd St	1937	Stores	No record	No record
5511-027-025	7922 W 3rd St	1948	Stores	No record	No record
5511-027-028	7000 W 3rd St	1988	Office Buildings	N/A	N/A
5511-038-001	7917 W 4th St	1929	Multi-Family Residential	No record	No record
5511-038-002	7925 W 4th St; 7923 W 4th St	1941	Multi-Family Residential	No record	3S;3CS;5S3
5511-038-003	7929 W 4th St;7927 W 4th St	1935	Multi-Family Residential	No record	3S;3CS;5S3
5511-038-004	7933 W 4th St;7931 W 4th St	1929	Multi-Family Residential	No record	3S;3CS;5S3
5511-038-020	7932 Blackburn Ave	1936	Multi-Family Residential	No record	No record
5511-038-021	7928 Blackburn Ave	1938	Multi-Family Residential	No record	No record
5511-038-026	351 S Fairfax Ave	1960	Stores	No record	No record
5511-038-027	359 S Fairfax Ave	1948	Stores	No record	No record
5511-038-028	365 S Fairfax Ave	1946	Office Buildings	No record	No record
5511-038-029	371 S Fairfax Ave	1947	Commercial	No record	No record
5511-038-031	7922 Blackburn Ave	1936	Multi-Family Residential	No record	No record
5511-038-033, 5511-038-034, 5511-038-035, 5511-038-036, 5511-038-037, 5511-	7916 Blackburn Ave	1991	Apartment building	N/A	N/A

Table 4: Properties in the Study Area					
APN	**Address**	**Built**	**Description**	**CHRIS**	**SurveyLA**
038-038, 5511-038-041, 5511-038-042					
5511-038-039, 5511-038-040, 5511-038-043	7912 Blackburn Ave	1991	Single-Family Residential	N/A	N/A
5511-039-001	6309 Colgate Ave	1916	Single-Family Residential	No record	No record
5511-039-002	6319 Colgate Ave	1926	Multi-Family Residential	No record	No record
5511-039-003	6323 Colgate Ave	1928	Single-Family Residential	No record	No record
5511-039-004	6327 Colgate Ave	1938	Multi-Family Residential	No record	No record
5511-039-024	7934 W 4th St; 7932 W 4th St	1928	Multi-Family Residential	No record	3S;3CS;5S3
5511-039-025	7928 W 4th St	1928	Multi-Family Residential	No record	Non-Contributor (no code)
5511-039-026	7926 W 4th St; 7924 W 4th St	1928	Multi-Family Residential	No record	3S;3CS;5S3
5511-039-027	7920 W 4th St; 7918 W 4th St	1937	Multi-Family Residential	No record	3S;3CS;5S3
5511-039-028	7914 W 4th St	1921	Single-Family Residential	No record	No record
5511-039-029	401 S Fairfax Ave	1946	Stores	No record	No record
5511-039-030	407 S Fairfax Ave	1946	Stores	No record	No record
5511-039-031	411 S Fairfax Ave	1938	Stores	No record	No record
5511-039-032	425 S Fairfax Ave	1963	Hotel & Motels	No record	No record
5512-003-030	6333 W 3rd St Farmer's Market	1935	Shopping Centers (Neighborhood, Community)	7N HCM #543	No record
5512-003-043	6301 W 3rd St	2002	Shopping Centers (Neighborhood, Community)	N/A	N/A

Appendix C – Conceptual Plans

PROJECT INFORMATION

Site Addresses:
6300-6370 W. 3rd Street
300-370 S. Fairfax Avenue
347 S. Ogden Drive
Los Angeles, CA 90036

OWNERSHIP:
TF, LLC
6300 Wilshire Blvd. #1800
Los Angeles, CA 90048
Contact: John Nahas
T. 213.553.2275

LANDSCAPE:
LRM Landscape Architecture | Urban Design
10335 Jefferson Boulevard,
Culver City, CA 90232
Contact: Charles Elliott
T. 310.839.660 F. 310.559.1310

ARCHITECT:
MVE + Partners
1900 Main Street
Irvine, CA 92614
Contact: Matthew McLarand
T. 949.809.3388 F. 949.809.3399

LAND USE CONSULTANT:
Craig Lawson & Co., LLC
3221 Hutchison Avenue, Suite D
Los Angeles, CA 90034
Contact: Jim Ries
T. 310.838.2400 F. 310.838.2424

PROJECT DESCRIPTION

Demolition of 151,048 SF of existing commercial floor area and new construction of 8 story mixed use project including 83,994 SF of new commercial floor area and 5 stories of multi-family residential over 3 levels of above-grade parking and retail, and 2 levels of underground parking

LEGAL DESCRIPTION

All that certain real property situated in the county of Los Angeles, State of California, described as follows:

That Portion of lot 12 of Tract No. 215, in the city of Los Angeles, in the county of Los Angeles, State of California, as per map recorded in book 14, pages 42 and 43 of maps, in the office of the county recorder of said county, described as follows:

Beginning at the intersection of the southerly line of third street, 60 feet wide, with the easterly line of Fairfax Avenue, 70 feet wide; thence south 80° 25' 40" east along the northerly line of said lot 12, being also the southerly line of said Third Street, 684.73 feet; thence south 0° 05' 45" east, parallel with the easterly line of said Fairfax Avenue, 437.11 feet to the northeasterly corner of that certain land conveyed to Los Angeles City School District of Los Angeles County, by two deeds executed by G. Allan Hancock, one of which was dated May 6, 1937, and recorded in book 15073 page 60, official records, and the other of which was dated July 31, 1936, recorded in book 14323 page 340, official records of said county; thence south 89° 54' 55" west along the northerly line of said land so conveyed to school district, 675 feet to the northwesterly corner thereof; being also a point in the easterly line of said Fairfax Avenue; thence north 0° 05' 45" west along the easterly line of said Fairfax Avenue, 551.97 feet to the point of beginning, being the "land" as defined in the conditions and stipulations of this policy.

Except all oil, gas, minerals, hydrocarbons and associated substances in and under said land, as reserved by University of Southern California, a corporation, in lease recorded September 1, 1967, as instrument no 638, official records. Provided, however, that the University of Southern California, its successors and assigns, shall not have the right to drill or install any equipment for the extraction of the substances hereby reserved from the surface of said land or within 500 feet thereof. Grantors their successors and assigns, shall have the right to drill and extract the substances hereby reserved from and through the subsurface of said property lying below a depth of 500 feet from the surface thereof; provided, however, that such operations shall not interfere with the quiet enjoyment of the property by the owners and tenants thereof, or their successors or assigns.

ZONE

CURRENT ZONE

LOT	ZONE	GENERAL PLAN DESIGNATION
APN 5509-018-003, 004, 005, 009, 010, 012, 013	**C2-1-O**	COMMUNITY COMMERCIAL

PROPOSED ZONE - no change

HEIGHT

(8 Total Stories over 2 Levels underground parking)	(Top of Roof Appurtenances included)
Height District 1 Max. Height Allowed	No Limit
Proposed Building Height	100'-0"

LOT AREA

Lot Area (Net Pre-dedicated)	327,121 sf (7.5097 Acres)
Lot Area (Post-dedicated)	312,620 sf (7.1768 Acres)
*Buildable Area	327,121 sf (7.5097 Acres)

*Per LAMC Section 12.03 C2 zone buildable area shall have the same meaning as lot area.

FLOOR AREA

Existing Commercial Floor Area	214,736 sf
Proposed Commercial Demolition	151,048 sf
Existing Commercial to Remain	63,688 sf
Proposed New Commercial Floor Area	83,994 sf
Total Commercial	147,682 sf
Proposed Residential Floor Area	343,000 sf
Total Floor Area	**490,682 sf (1.5 FAR)**

NET NEW FLOOR AREA BY LEVEL

Level	Retail	Amenities	Lobby/Leasing	Residential
Roof				
Level 8				74,936 sf
Level 7				74,936 sf
Level 6				74,936 sf
Level 5		2,117 sf		71,226 sf
Level 4		3,540 sf		38,934 sf
Level 3	48,741 sf			
Level 2				
Level 1	35,253 sf		2,375 sf	
Total	**83,994 sf**		**343,000 sf**	

RESIDENTIAL UNITS

Studio	70 Units
1 Bedroom	162 Units
2 Bedroom	66 Units
3 Bedroom	33 Units
Total	**331 Units**

PARKING

REQUIRED

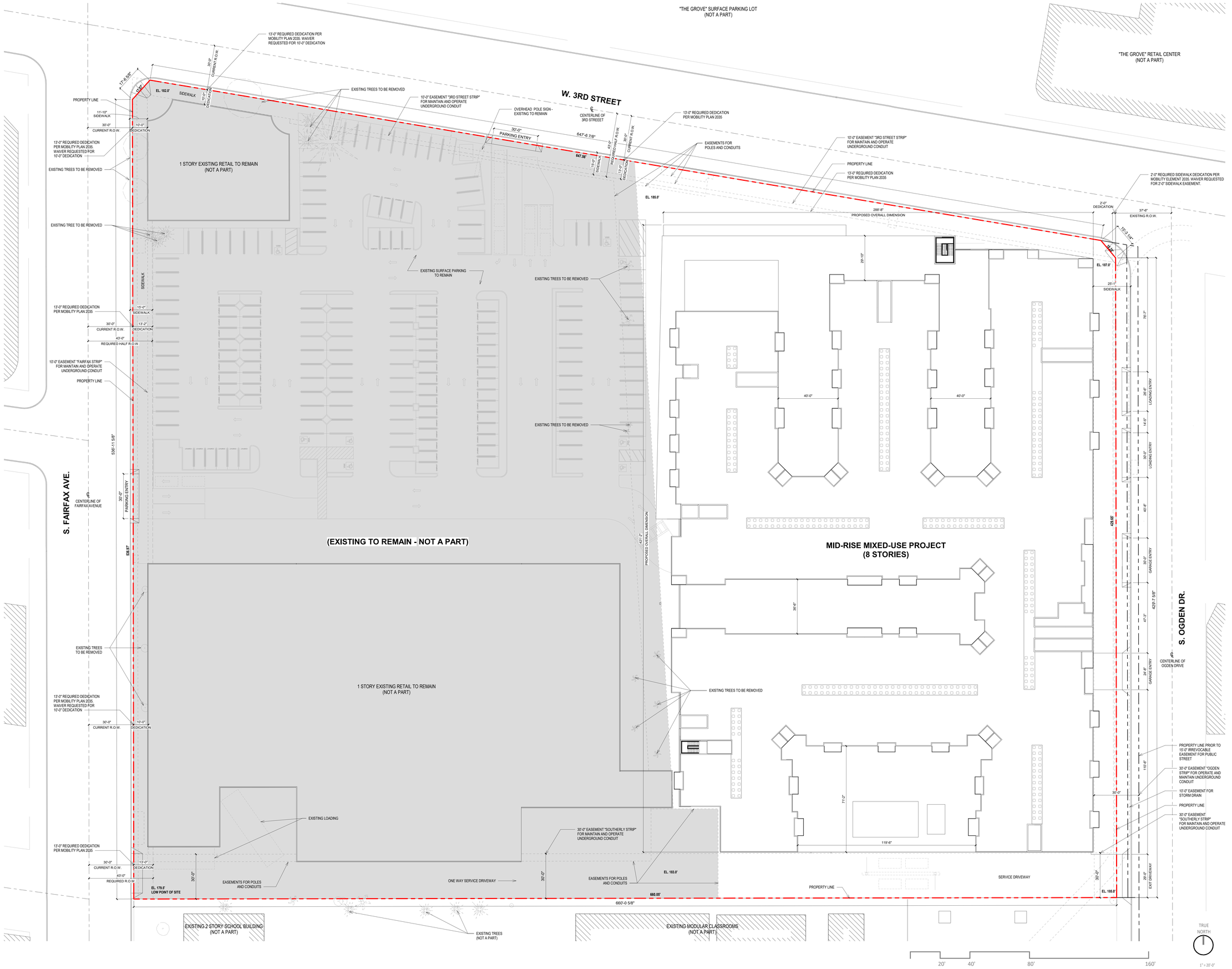
Residential			
Units with 3 or less Habitable Rooms	70 Units x 1.00	=	70 Spaces
Units equal to 3 Habitable Rooms	162 Units x 1.50	=	243 Spaces
Units with more than 3 Habitable Rooms	99 Units x 2.00	=	198 Spaces
Total Required Residential Spaces		**=**	**511 Spaces**
Commercial (Retail)			
Existing to remain**	63,688 sf @ 1 per 500 SF	=	127 Spaces
New Commercial Retail	64,994 sf @ 4 per 1,000 SF	=	260 Spaces
New Commercial Restaurant	19,000 sf @ 1 per 100 SF	=	190 Spaces
Total Required Commercial Spaces		**=**	**577 Spaces**

PROPOSED

Residential	511 Spaces
Commercial (Retail)	
Existing Parking to be Restriped	174 Spaces
New provided Garage Parking	471 Spaces
Total Proposed	**= 1,156 Spaces**

**Existing retail to remain required parking per grandfathered parking ratio per LAMC Section 12.23 B 8

GENERAL NOTES:
1. GREY SHADED REGION OF PLANS ON SHEETS A0.00 & A0.01 INDICATE EXISTING TO REMAIN - NOT A PART
2. REFER TO SHEET A0.01 FOR ADDITIONAL INFORMATION.



PROJECT INFORMATION (CON'T)

BICYCLE PARKING

REQUIRED

Residential					
1-25 Units	2	(Short Term)	/	25	(Long Term)
26-100 (75 Units)	5	(Short Term)	/	50	(Long Term
101-200 (100 Units)	5	(Short Term)	/	50	(Long Term)
201-331 (131 Units)	3	(Short Term)	/	33	(Long Term)
Commercial (Retail)					
Proposed	42	(Short Term)	/	42	(Long Term)
Total Required	**57**	**(Short Term)**	**/**	**200**	**(Long Term) = 257 Spaces**

PROPOSED

Residential					
	15	(Short Term)	/	158	(Long Term)
Commercial (Retail)					
Proposed	42	(Short Term)	/	42	(Long Term)
Total Proposed	**57**	**(Short Term)**	**/**	**200**	**(Long Term) = 257 Spaces**

OPEN SPACE

REQUIRED	UNIT COUNT	OPEN SPACE
Units with less than 3 Habitable Rooms (100 sf. Required per Unit)	232 Units	23,200 sf
Units with 3 Habitable Rooms (125 sf. Required per Unit)	66 Units	8,250 sf
Units with more than 3 Habitable Rooms (175 sf. Required per Unit)	33 Units	5,775 sf
Total Open Space Required	**331 Units**	**37,225 sf**

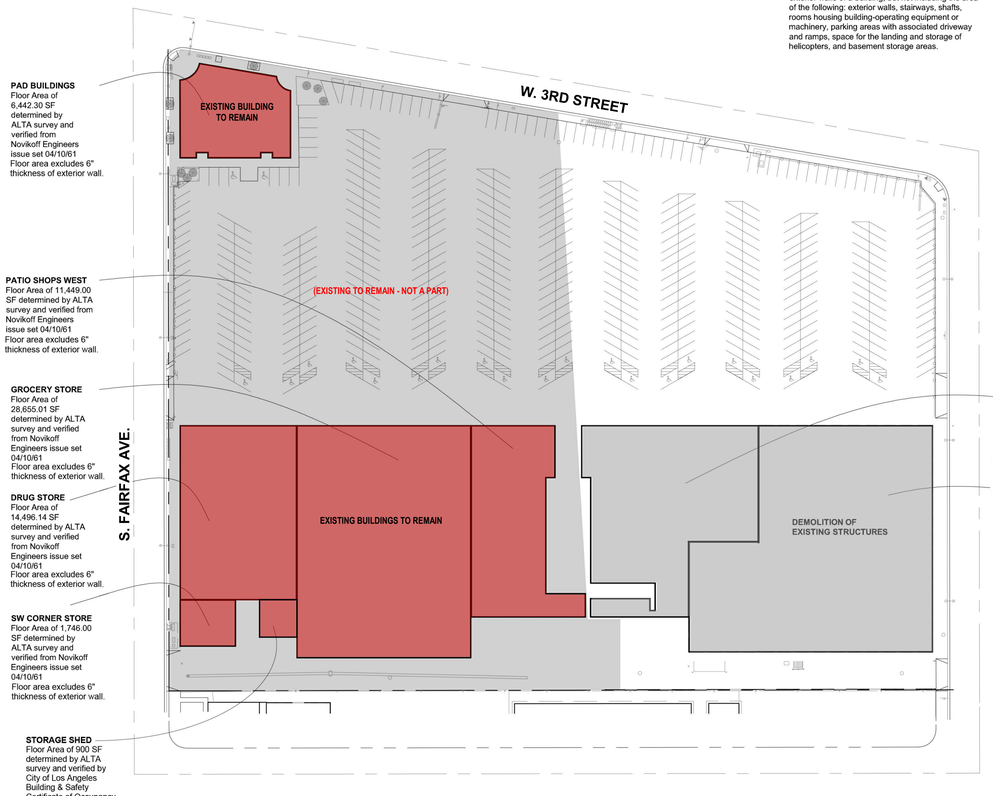
PROPOSED

Common Open Space 'Indoor'	
Level 4 Amenity	3,540 sf
Level 5 Amenity	2,100 sf
Total Common Open Space 'Indoor'	5,640 sf
Common Open Space 'Outdoor'	
Level 4 Roof Deck	15,303 sf
Level 5 Roof Deck	14,134 sf
Level 7 Roof Deck	2,148 sf
Total Common Open Space 'Outdoor'	31,585 sf
Total Common Open Space 'Indoor' (Max. 25% of Required Open Space = 9,306 sf)	5,640 sf
Total Common Open Space 'Outdoor'	31,585 sf
Total Proposed Open Space	**37,225 sf**
Planted Area Required (25% of Proposed "Outdoor" Common Open Space)	7,896 sf
Planted Area Provided	**7,896 sf**

TREES

REQUIRED (1 per 4 Units)	83 Trees
PROVIDED (1 per 4 Units)	**83 Trees**

Sec. 12.03 of Zoning Code Defines Floor Area:
Is that area in square feet confined within the exterior walls of a building, but not including the area of the following: exterior walls, stairways, shafts, rooms housing building-operating equipment or machinery, parking areas with associated driveway and ramps, space for the landing and storage of helicopters, and basement storage areas.



PAD BUILDINGS
Floor Area of 6,442.30 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

PATIO SHOPS WEST
Floor Area of 11,449.00 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

GROCERY STORE
Floor Area of 28,655.01 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

DRUG STORE
Floor Area of 14,496.14 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

SW CORNER STORE
Floor Area of 1,746.00 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

STORAGE SHED
Floor Area of 900 SF determined by ALTA survey and verified by City of Los Angeles Building & Safety Certificate of Occupancy approved 04/25/1963 Permit Number #1961LA88700

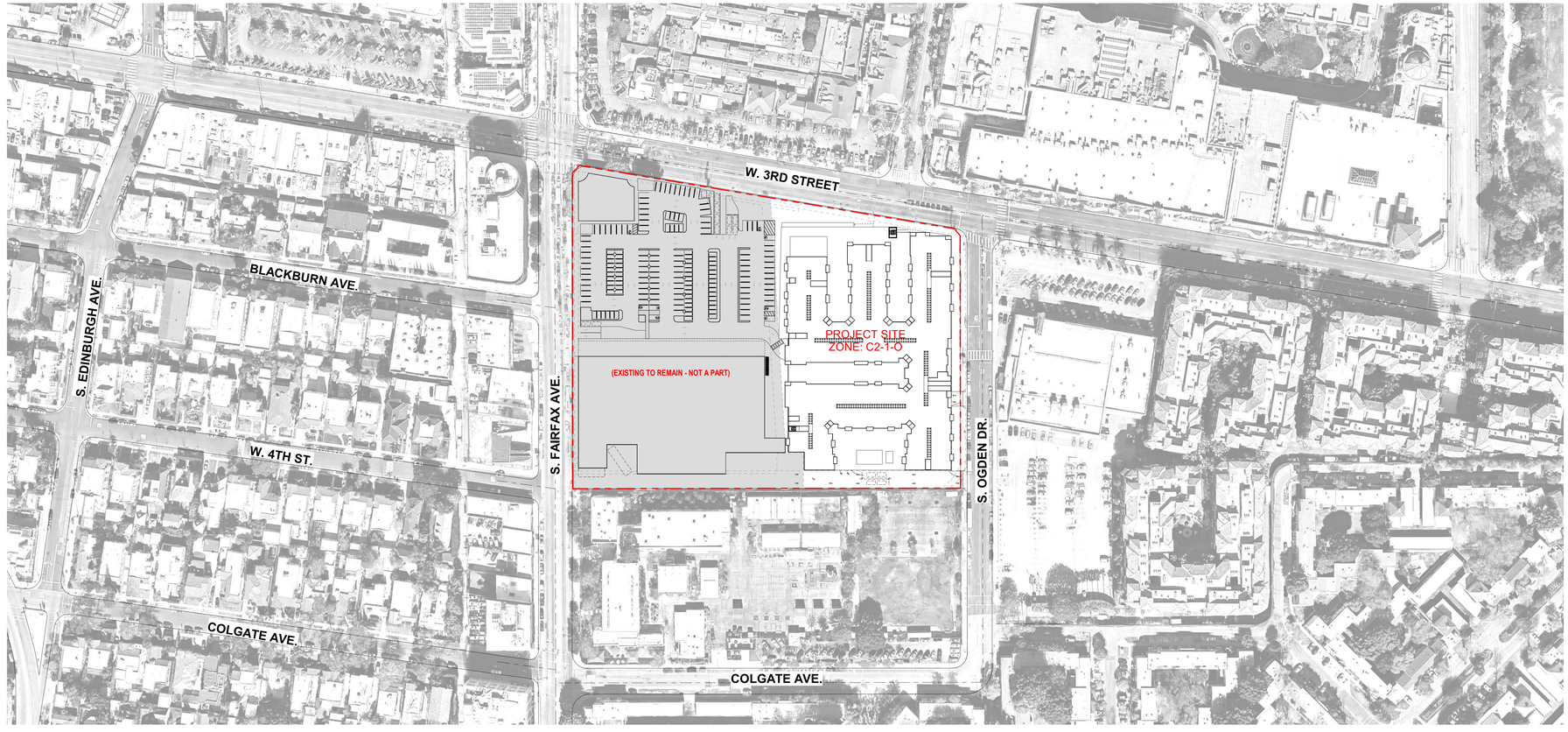
PATIO SHOPS EAST
Floor Area of 19,174.52 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

KMART
Floor Area of 131,873.00 SF determined by ALTA survey and verified from Novikoff Engineers issue set 04/10/61
Floor area excludes 6" thickness of exterior wall.

EXISTING FLOOR AREA CALCULATIONS:

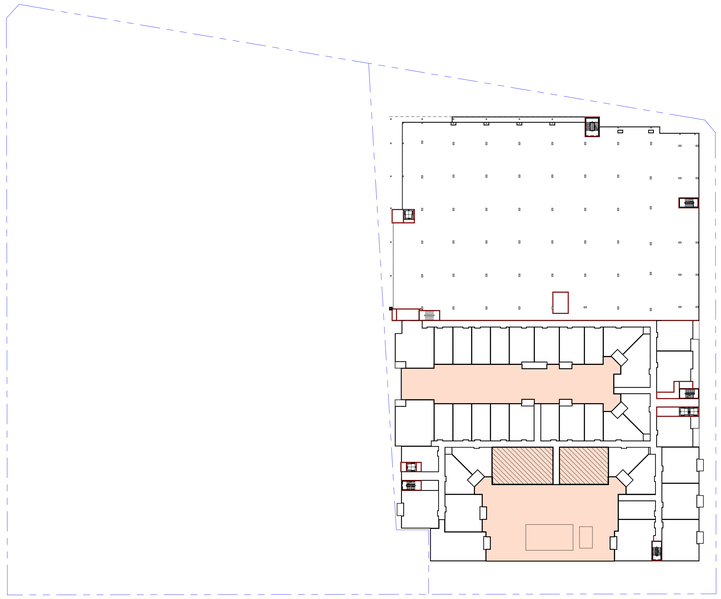
Total Existing Floor Area	**214,736**	**SF**
Patio Shops East	19,174.52	SF
KMart	131,873.00	SF
Total Area to be Demolished	**151,048**	**SF**
Pad Buildings	6,442.30	SF
Patio Shops West	11,449.00	SF
Grocery Store	28,655.01	SF
Drug Store	14,496.14	SF
Storage Shed	900	SF
SW Corner Store	1,746.00	SF
Total Area to Remain	**63,688**	**SF**

1 Existing Site Plan & Floor Area
1" = 40'-0"



2 Contextual Site Plan
1" = 80'-0"

NOTES:
1. SEE SHEET A1.04 & A1.05 FOR DIMENSIONS OF OPEN SPACE AREAS.



1 Level 4
1" = 50'-0"

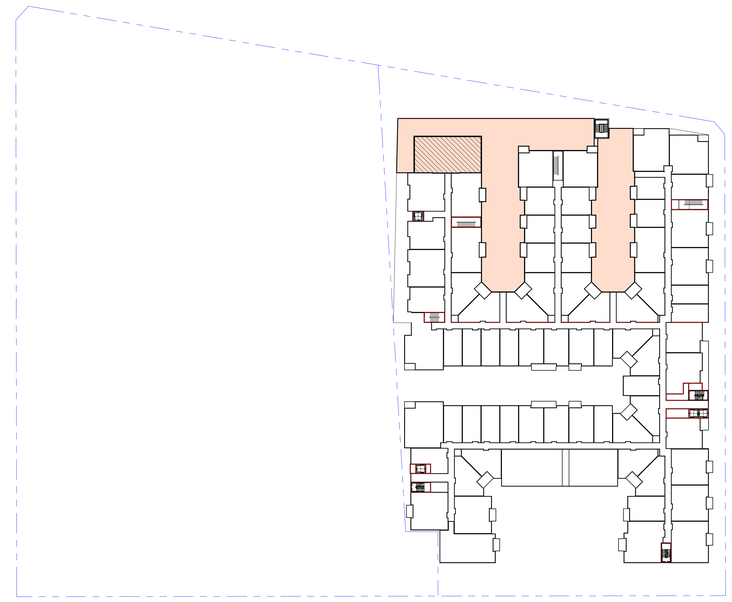
OPEN SPACE LEGEND

COMMON OPEN SPACE 'OUTDOOR'
COMMON OPEN SPACE 'INDOOR'

(REFERENCE LANDSCAPE PLANS)

FLOOR SUMMARY

COMMON OPEN SPACE 'OUTDOOR' =	15,393 SF
COMMON OPEN SPACE 'INDOOR' =	3,540 SF



2 Level 5
1" = 50'-0"

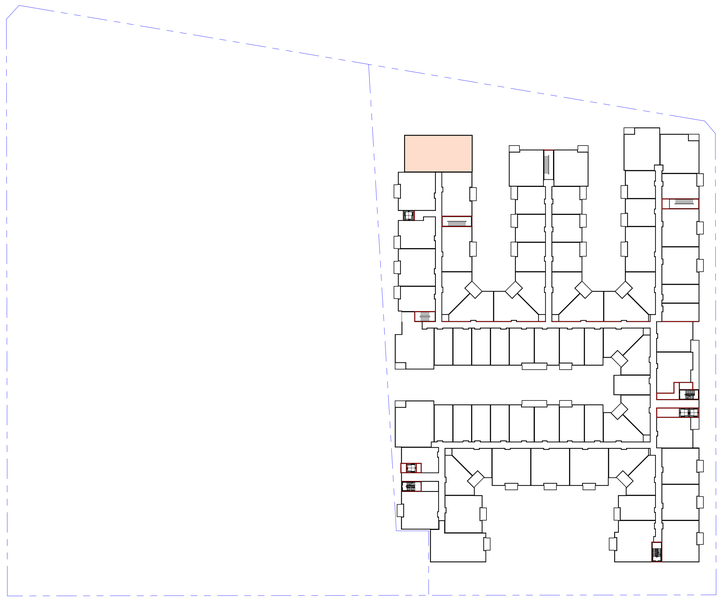
OPEN SPACE LEGEND

COMMON OPEN SPACE 'OUTDOOR'
COMMON OPEN SPACE 'INDOOR'

(REFERENCE LANDSCAPE PLANS)

FLOOR SUMMARY

COMMON OPEN SPACE 'OUTDOOR' =	14,134 SF
COMMON OPEN SPACE 'INDOOR' =	2,100 SF



3 Level 7
1" = 50'-0"

OPEN SPACE LEGEND

COMMON OPEN SPACE 'OUTDOOR'
COMMON OPEN SPACE 'INDOOR'

(REFERENCE LANDSCAPE PLANS)

FLOOR SUMMARY

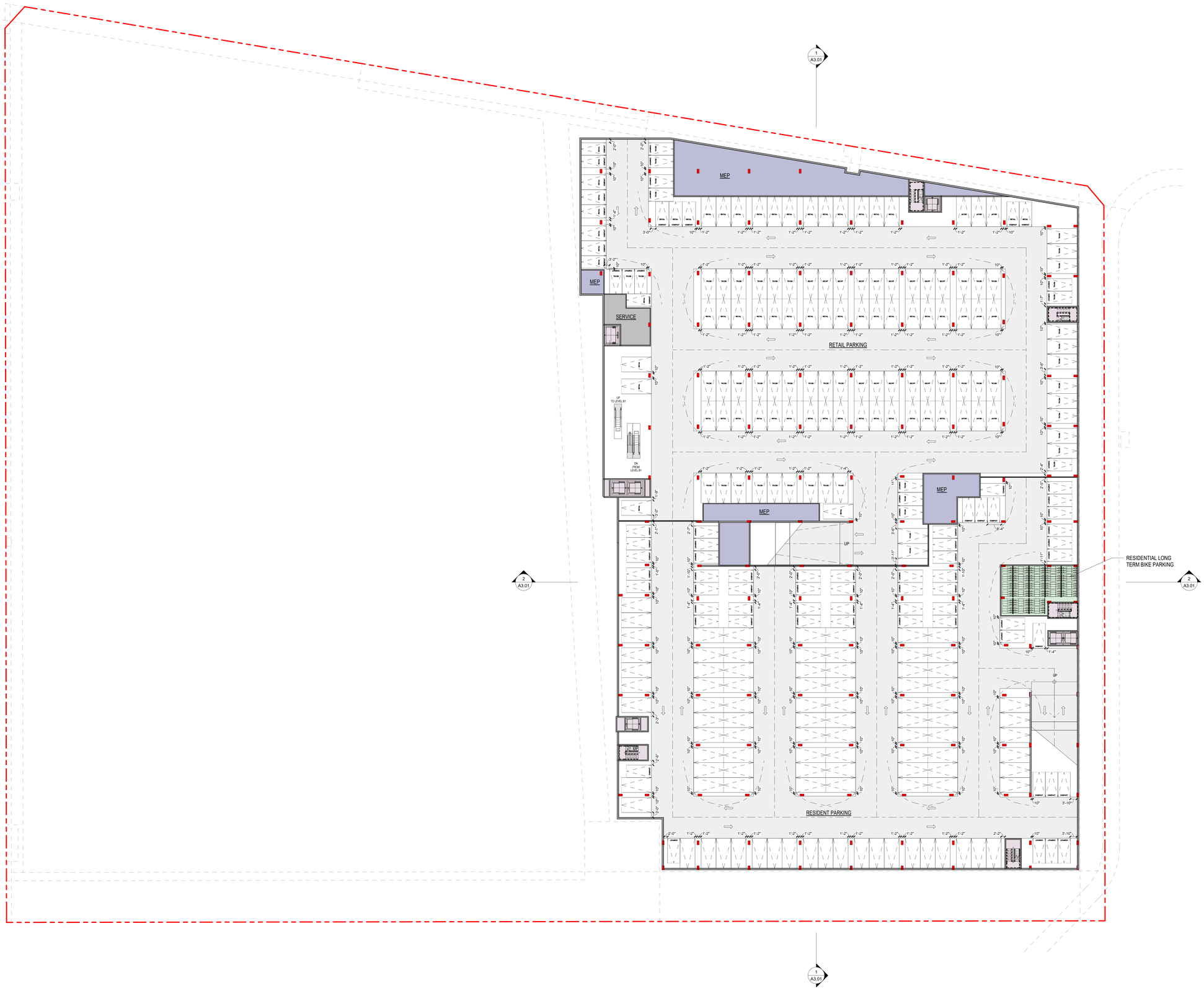
COMMON OPEN SPACE 'OUTDOOR' =	2,148 SF
COMMON OPEN SPACE 'INDOOR' =	0 SF

50' 100' 200' 400'

TRUE NORTH

As indicated

PARKING COUNT - LEVEL P2		
Type	Comments	Count
Level B2		
Compact 7'-6" X 15'-0"	Resident Compact Prime	56
Standard 9'-0" X 18'-0"	Resident Standard Prime	94
Retail Compact 7'-6" X 15'-0"	Retail Compact Prime	14
Retail Compact 8'-0" X 15'-0"	Retail Compact Prime	9
Retail Compact 9'-0" X 15'-0"	Retail Compact Prime	4
Retail Standard 9'-0" X 18'-0"	Retail Standard Prime	113
Total		290



20' 40' 80' 160'

TRUE NORTH

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL P2

A1.0A

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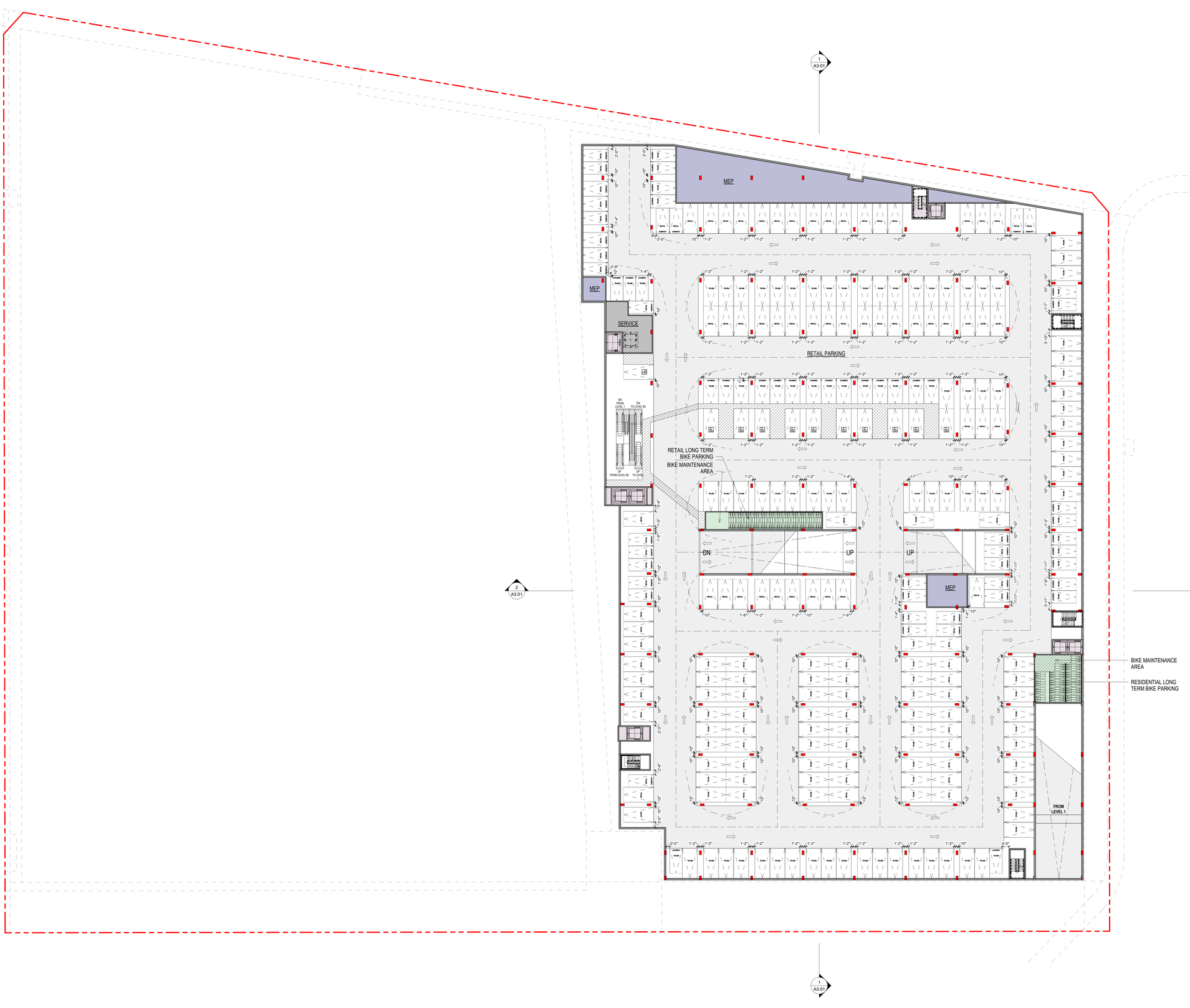
PARKING COUNT - LEVEL P1		
Type	Comments	Count
Level B1		
Retail Compact 7'-6" X 15'-0"	Retail Compact Prime	39
Retail Compact 8'-0" X 15'-0"	Retail Compact Prime	5
Retail Compact 9'-0" X 15'-0"	Retail Compact Prime	18
ADA 9'-0" X 18'-0"	Retail Standard Prime	11
Retail Standard 9'-0" X 18'-0"	Retail Standard Prime	195
Total		268



TRUE NORTH

20' 40' 80' 160'

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL P1

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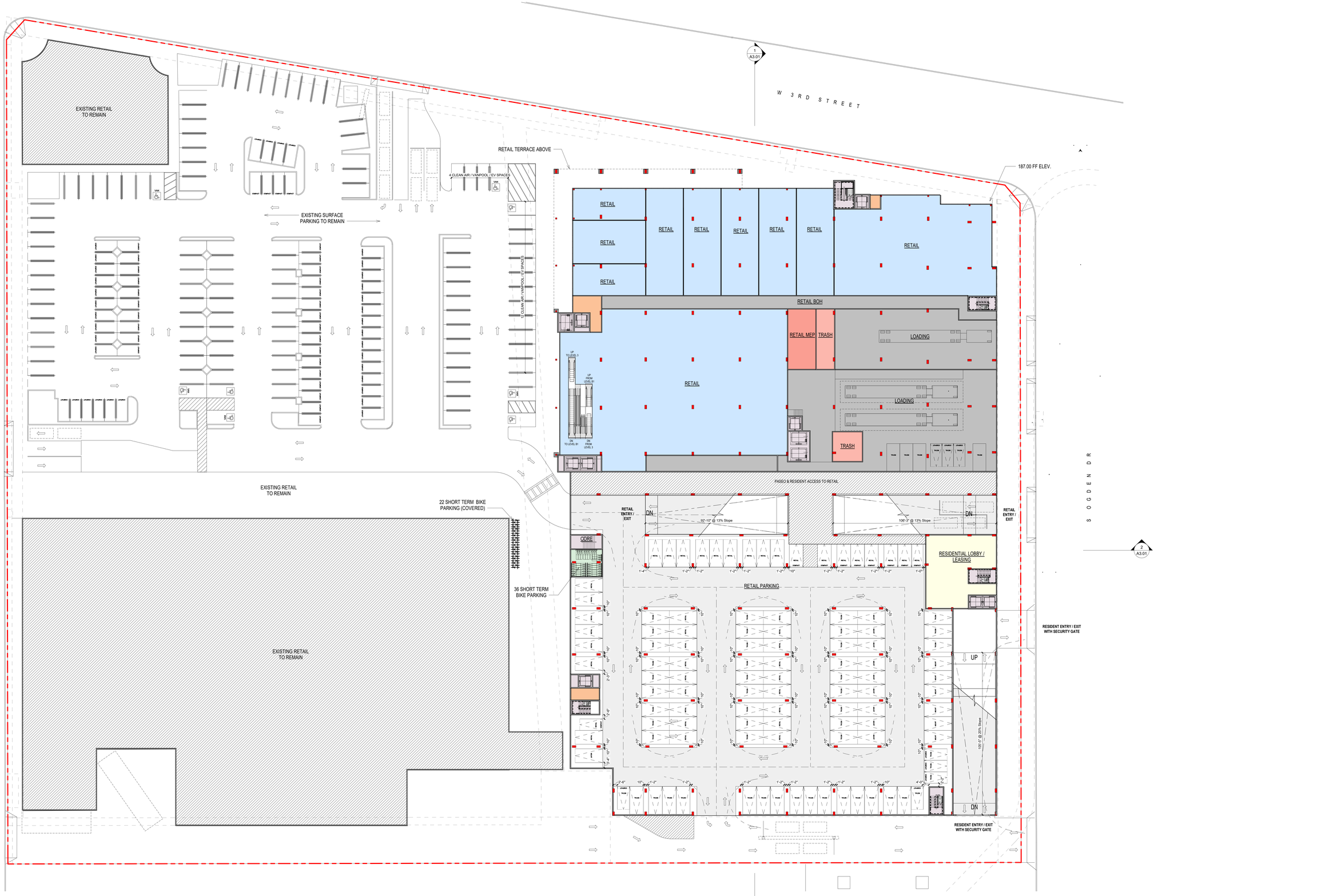
PARKING COUNT - LEVEL 1		
Type	Comments	Count
Level 1		
Retail Compact 7'-6" X 15'-0"	Retail Compact Prime	5
Retail Compact 8'-0" X 15'-0"	Retail Compact Prime	2
Retail Compact 9'-0" X 15'-0"	Retail Compact Prime	7
Retail Standard 9'-0" X 18'-0"	Retail Standard Prime	95
Total		109



20' 40' 80' 160'

1" = 20'-0"

TRUE NORTH

HOLLAND PARTNER GROUP | MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL 1

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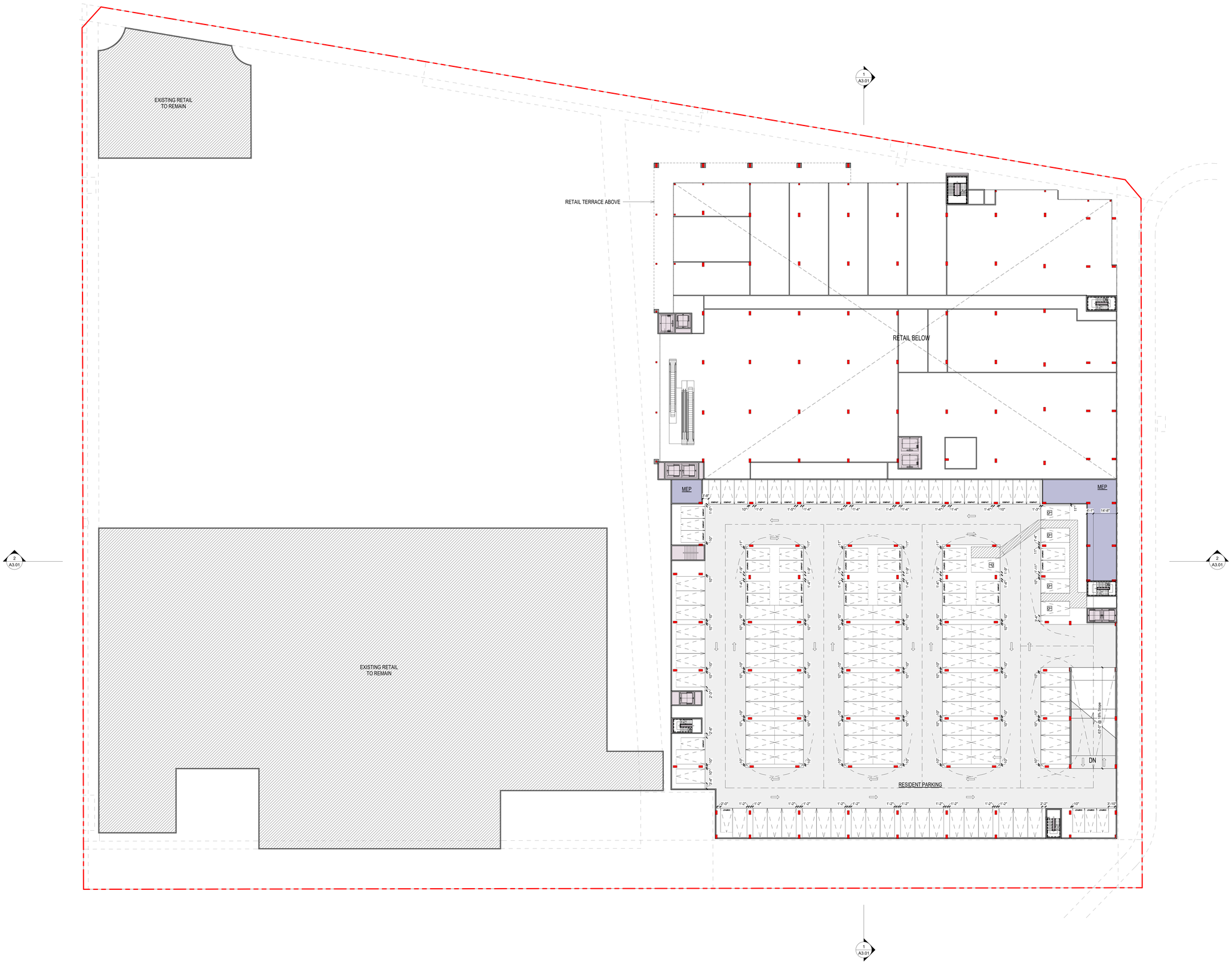
PARKING COUNT - LEVEL 2		
Type	Comments	Count
Level 2		
Compact 7'-6" X 15'-0"	Resident Compact Prime	34
Compact 8'-6" X 15'-0"	Resident Compact Prime	19
ADA 9'-0" X 18'-0"	Resident Standard Prime	5
Standard 9'-0" X 18'-0"	Resident Standard Prime	94
Total		152



TRUE NORTH

20' 40' 80' 160'

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL 2

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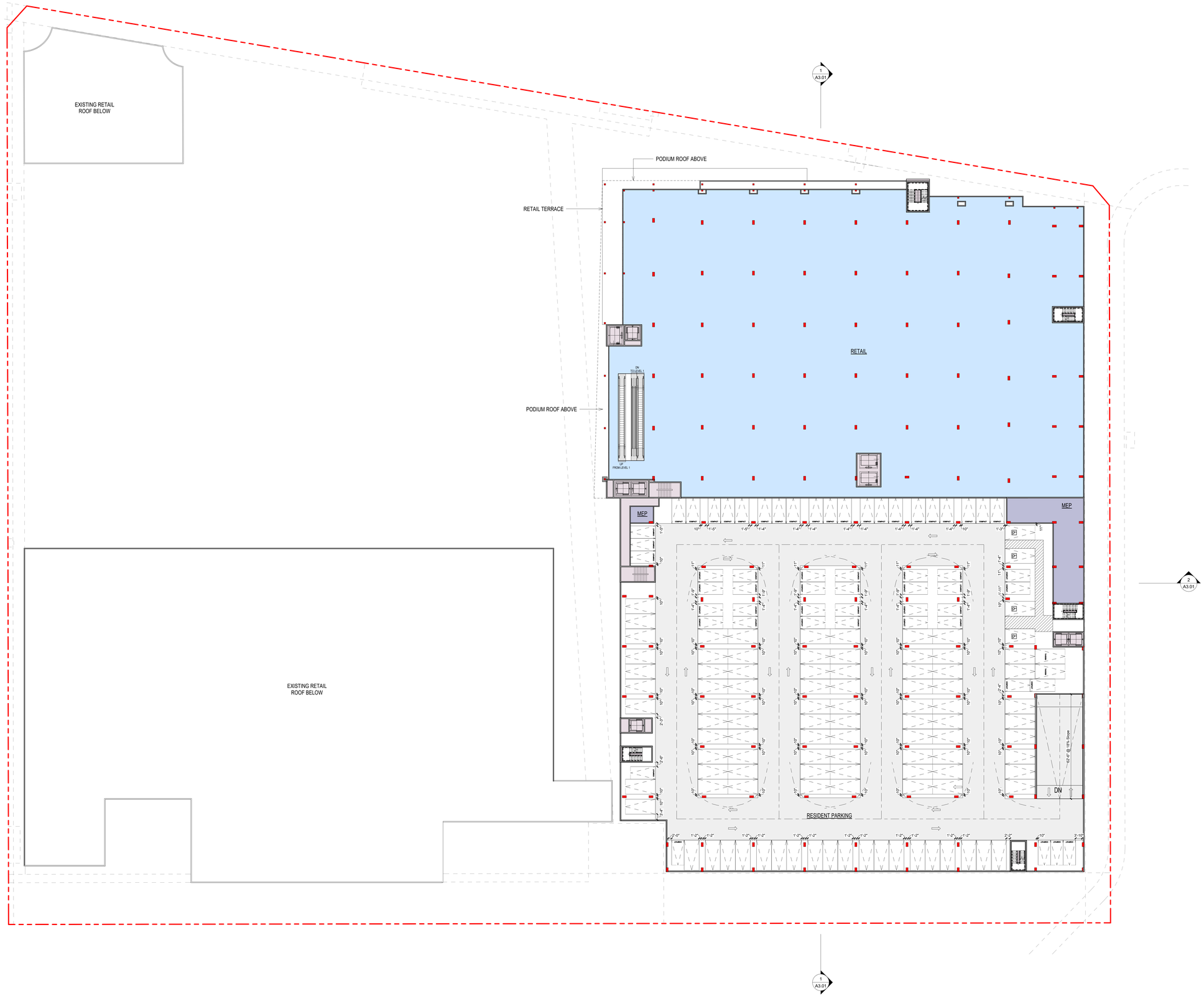
PARKING COUNT - LEVEL 3

Type	Comments	Count
Level 3		
Compact 7'-6" X 15'-0"	Resident Compact Prime	35
Compact 8'-6" X 15'-0"	Resident Compact Prime	19
Compact 7'-6" X 15'-0"	Resident Compact Tandem	1
ADA 9'-0" X 18'-0"	Resident Standard Prime	4
Compact 7'-6" X 15'-0"	Resident Standard Prime	1
Standard 9'-0" X 18'-0"	Resident Standard Prime	96
Standard Tandem 9'-0" X 18'-0"	Resident Standard Tandem	2
Total		158



TRUE NORTH

20' 40' 80' 160'

1" = 20'-0"

HOLLAND PARTNER GROUP | MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL 3

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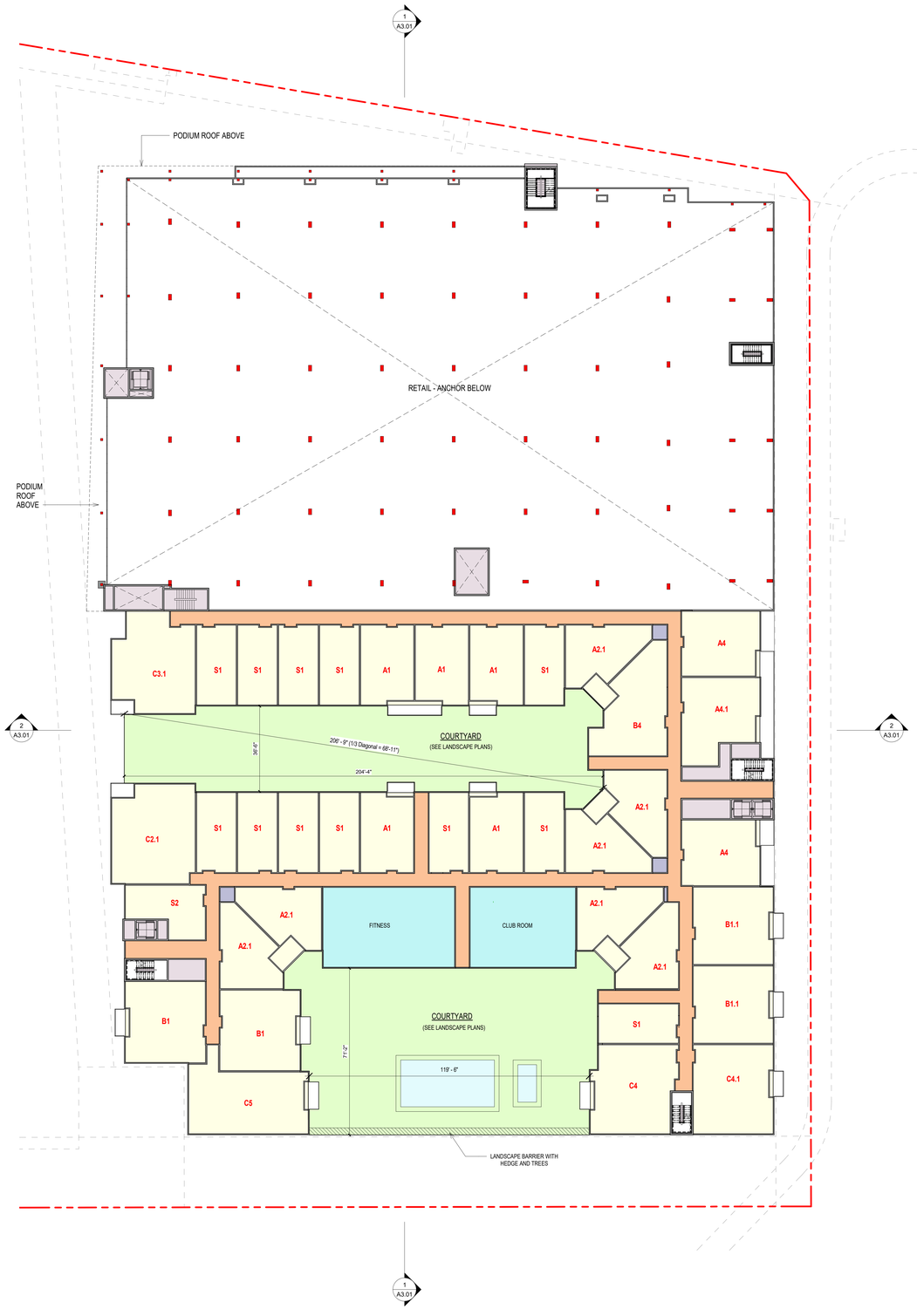



2 A3.01
1 A3.01

TRUE NORTH

20' 40' 80' 160'

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVELS 4 & 5

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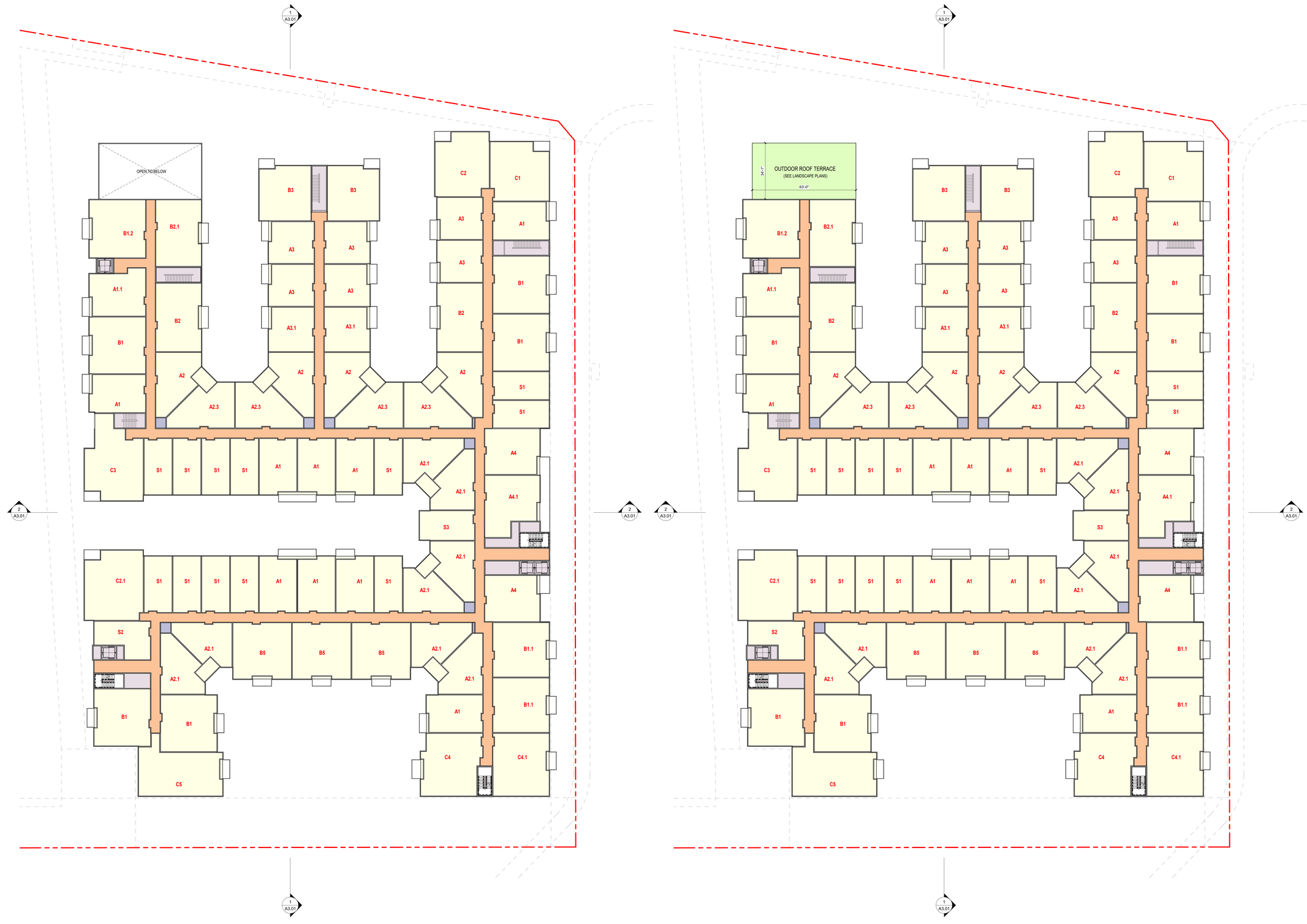

20' 40' 80' 160'

TRUE NORTH

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVELS 6 & 7

RET DES CO

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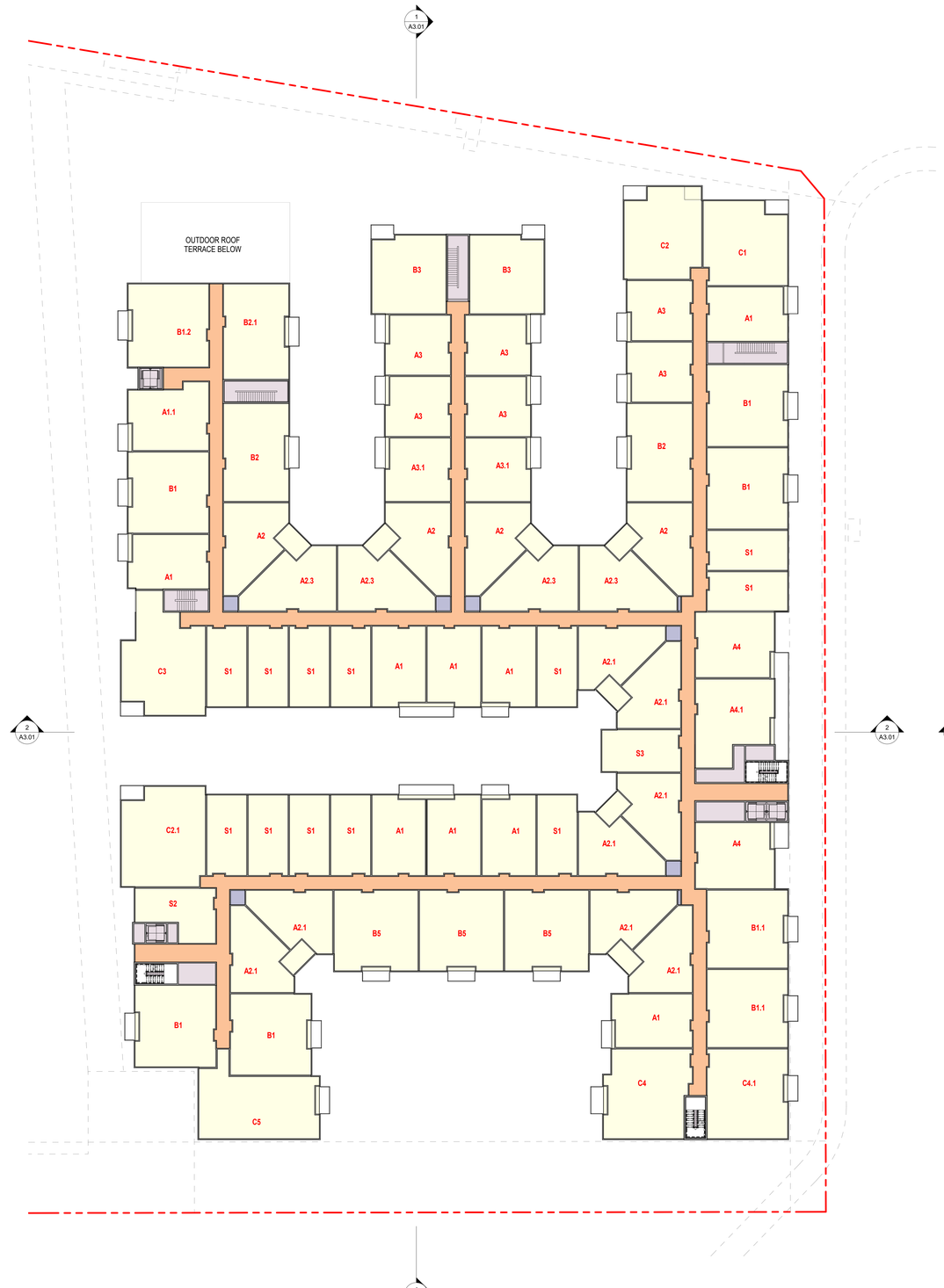

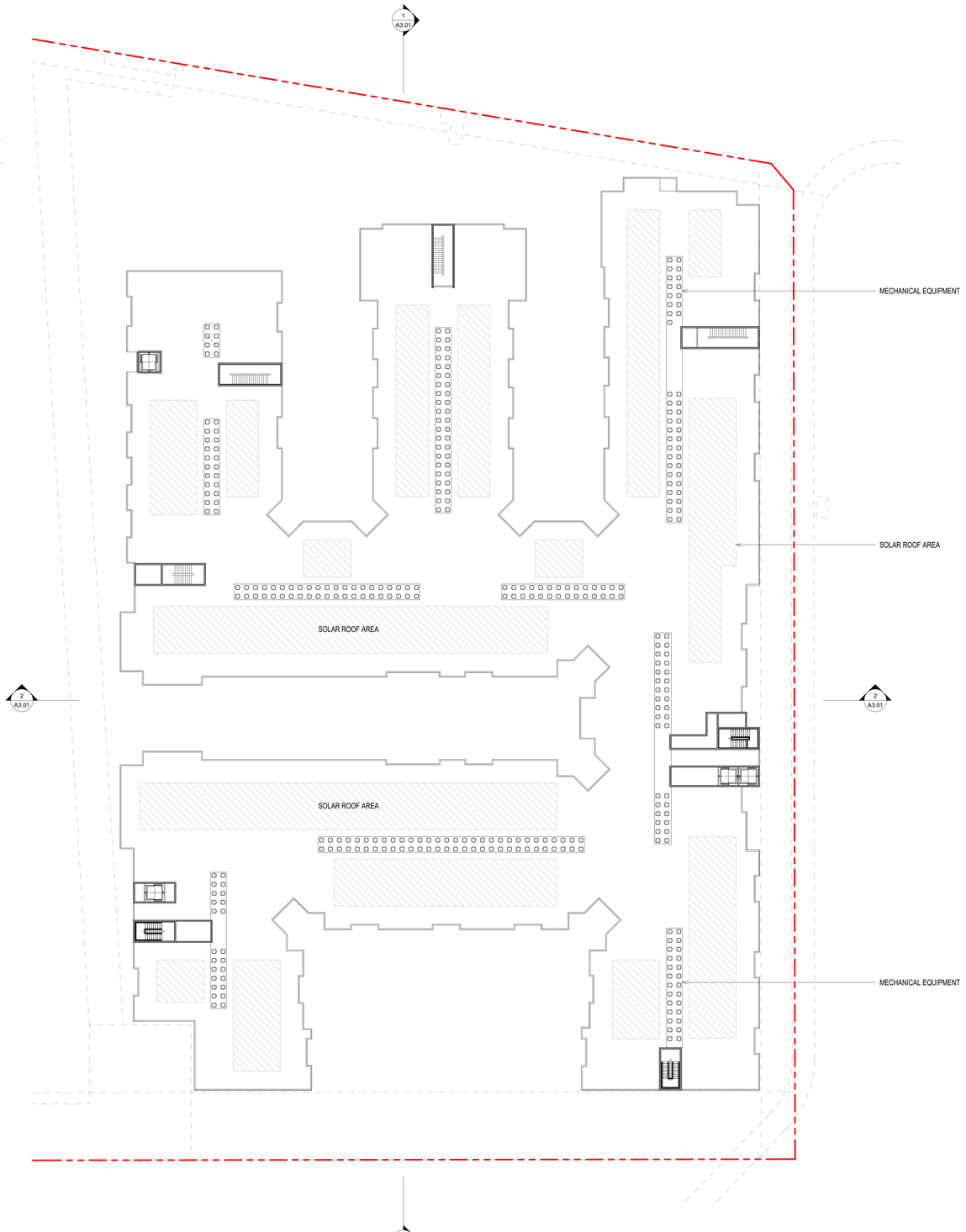

TRUE NORTH

20' 40' 80' 160'

1" = 20'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

FLOOR PLAN - LEVEL 8 & ROOF

RETDESCO

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0' 16' 32' 64' 128'

1/16" = 1'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

ELEVATIONS - SOUTH & EAST

A2.01

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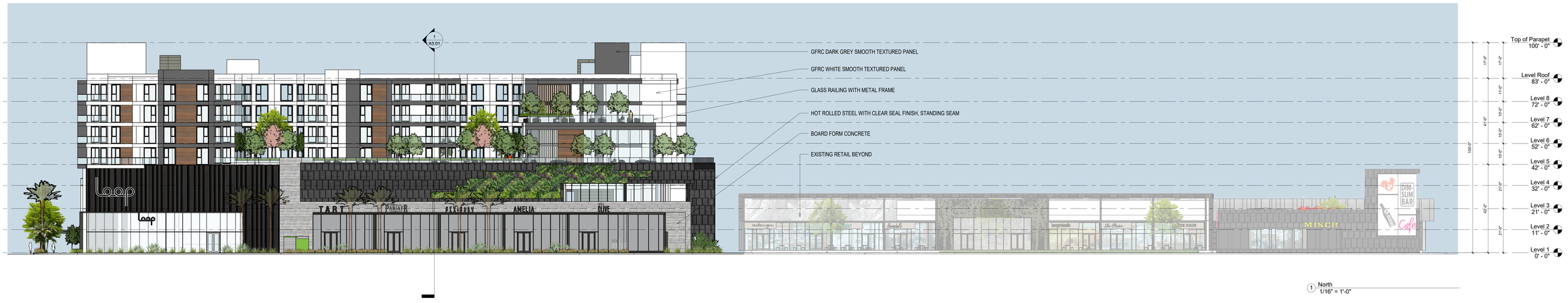


1 North
1/16" = 1'-0"

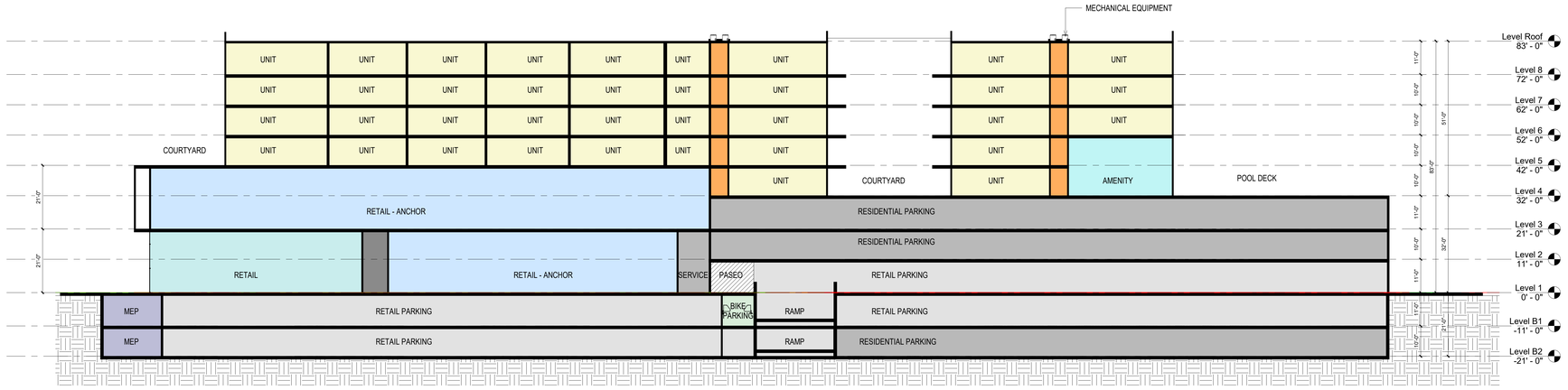


2 West
1/16" = 1'-0"

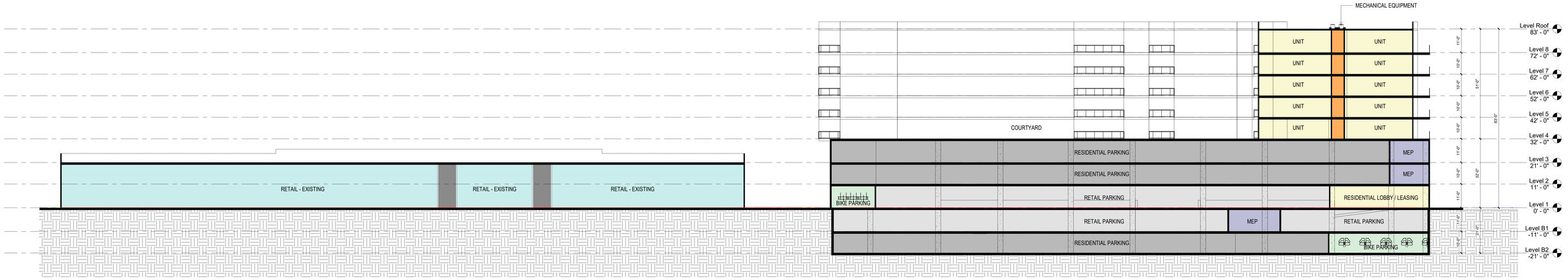
TRUE NORTH

0' 16' 32' 64' 128'

1/16" = 1'-0"



1 Section 1
1/16" = 1'-0"



2 Section 2
1/16" = 1'-0"

0' 16' 32' 64' 128'

1/16" = 1'-0"

HOLLAND PARTNER GROUP

MVE + PARTNERS

6300 W. 3rd Street, Los Angeles, CA 90036

Note: Conceptual Design Package Subject To Change

SITE SECTIONS - TRANSVERSE & LONGITUDINAL

RED DESIGN CORP

A3.01

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ARCHAEOLOGICAL RESOURCES ASSESSMENT FOR THE 6300 WEST THIRD STREET PROJECT, LOS ANGELES, LOS ANGELES COUNTY, CALIFORNIA

February 2019

PREPARED FOR

Holland Partner Group
5000 E. Spring Street
Suite 500
Long Beach, CA 90815

PREPARED BY

SWCA Environmental Consultants
51 West Dayton Street
Pasadena, California 91105

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Archaeological Resources Assessment for the 6300 West Third Street Project, Los Angeles, California

Prepared for

Holland Partner Group
5000 E. Spring Street
Suite 500
Long Beach, CA 90815

Prepared by

Trevor Gittelhough, M.A.,
Chris Millington, M.A., RPA,
and
Ales Wesson, B.A

SWCA Environmental Consultants
51 West Dayton Street
Pasadena, California 91105
(626) 240-0587
www.swca.com

SWCA Project No. 049872.00
SWCA CRRD Report No. 18-452

February 2019

MANAGEMENT SUMMARY

Purpose and Scope: Holland Partner Group (the project applicant), retained SWCA Environmental Consultants (SWCA) to conduct an archaeological resources review and sensitivity assessment in support of the proposed 6300 West Third Street Project (project) in the city and county of Los Angeles, California. The project applicant proposes to demolish two existing buildings and surface parking lot and construct one 8-story, mixed-use commercial and residential building on a 7.5-acre property located at 6300 West Third Street (project site). The ground disturbing activities proposed by the project are defined as the area of potential impact (API). The API occupies the eastern portion of the project site and measures 3.25 acres (141,753 square feet), extending approximately 30 feet below the surface. The following study was conducted to analyze the potential impacts this project may have on resources located in the API to comply with the California Environmental Quality Act (CEQA), including relevant portions of Public Resources Code (PRC) Section 5024.1, Title 14 California Code of Regulations (CCR) Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1. The following report documents the methods and results of a confidential records search of the California Historical Resources Information System (CHRIS) and archival research used to evaluate the presence or likelihood of archaeological resources within the API.

Dates of Investigation: SWCA conducted a CHRIS search for the project site plus a 0.8-km (0.5-mile) radius on July 5, 2018, at the South Central Coastal Information System (SCCIC) located at California State University, Fullerton. SWCA received the results of a Sacred Lands File (SLF) search from the Native American Heritage Commission (NAHC) on July 16, 2018.

Summary of Findings: A CHRIS records search and archival research identified 12 previously recorded resources within a 0.8-km (0.5-mile) radius of the project site. None of the resources were located within the project site or API. Resources identified in the 0.5-mile radius include one Historic-period archaeological site (P-19-002964) documented east of the project site, and three are Historic- and Prehistoric-period archaeological sites (P-19-000159, P-19-001261, and P-19-003945). P-19-000159 includes Native American human remains, commonly known as the La Brea Woman, recovered in 1915 from asphalt seeps in the La Brea Tar Pits 0.7 km (0.4 miles) to the southeast of the project site. P-19-001261 is a Historic-period refuse pit identified near the prehistoric site in the La Brea Tar Pits. P-19-002964 consists of an early twentieth century refuse scatter and brick foundation feature documented less than 0.3 miles west of the project site during construction monitoring for the Park La Brea housing development on the south side of 3rd Street between the project site and Hauser Boulevard. P-19-003945 includes the Gilmore adobe and historical assemblage located to the north of the project site in the current location of the Farmer's Market.

The record of industrial uses on the project site originated in 1890s with the discovery of the Salt Lake Oil Field and development under ownership of Arthur Gilmore. Aerial photographs and maps from 1919–1928 show that at least one oil well, three storage tanks, and associated structures were located within the API. Historic-period archaeological resources could be preserved below the current ground surface, including non-native sediments identified as artificial fill within the API. Specifically, there is potential to encounter structural remains, features, and artifacts associated with industrial use of the project site beginning in the 1890s. This is further suggested by the presence of similar resources recovered during construction monitoring for the Park La Brea housing development in parcels east of the current project site, on the south side 3rd Street. For these reasons, SWCA finds the API has a moderate sensitivity for containing Historic-period (non-Native American) archaeological resources.

The NAHC's SLF results were negative. The letter notes that the SLF and CHRIS are not exhaustive inventories of resources that may be present in any given area. The nearest named Gabrielino villages to the project site are all located between 9.5 and 12 km (5.9 and 7.5 miles) away. Other unnamed Native

American settlements have been documented approximately 4.5 km (2.8 miles) south of the project site along the former course of the Los Angeles River (now Ballona Creek). The La Brea Tar Pits served as an important source of asphaltum for Native Americans dating back at least 10,000 years. Other water features including perennial springs and small wetlands are known to have existed along the southeast-facing toeslopes of the Santa Monica Mountains within approximately 3 to 5 km (1.9 to 3.1 miles) of the project site would have been frequented by Native Americans. The proximity to these natural resources, especially the asphaltum source, suggests an increased level of sensitivity for prehistoric archaeological resources above background levels, specifically remains from a temporary camp identified by the presence of flaked stone tools, tool-making debris, stone milling tools, shell, fire-altered rock, and sediment discoloration or carbonization. It is possible that deeply buried prehistoric archaeological resources can occur within the alluvial sediments identified below the artificial fill. Given the increased level of sensitivity based on proximity to an important asphaltum source and Prehistoric-period site with human remains at the La Brea Tar Pits, SWCA finds the API has a moderate sensitivity for containing Prehistoric-period or Historic-Period Native American archaeological resources.

Conclusion: The depth of excavation within the API is approximately 30 feet below the surface, which would require excavation of the underlying alluvial sediments and removal of the overlying artificial fill. The potential for unidentified archaeological resources within the API is found to be moderate. Specifically, there is potential to encounter structural remains, features, and artifacts associated with the Historic-period industrial use of the project site beginning in the 1890s, and prehistoric artifacts or features associated with a temporary camp deeply buried within native alluvial soils below or (less likely) intermixed with artificial fill or otherwise recently disturbed sediments. Prehistoric artifacts and features include flaked stone tools, tool-making debris, stone milling tools, shell, sediment discoloration or carbonization, and depressions or other features indicative of a former living surface. If present, the archaeological resource could be used to answer important research questions, would be considered eligible for listing in the CRHR under Criterion 4, and therefore meet the qualifications of a historical resource or unique archaeological resource under CEQA.

Considering that such a Historic- or Prehistoric-period archaeological resource would qualify for the CRHR and be considered a unique archaeological resource, the API has not been previously inspected for the presence of the resource below the surface, the moderate sensitivity for the presence of the resource, the subtle nature of the archaeological materials. Construction activities on the site would comply with applicable regulatory measures to minimize impacts on known and unknown archeological resources. In addition, considering the location of the API, and the potential for archeological resources to be present on it, this report contains measures designed to reduce potential impacts to less than significant levels. These measures include: retaining a qualified archaeologist, preparing an Archaeological Resources Mitigation Monitoring Program, implementing a Worker Environmental Awareness Program, and conducting archaeological resources monitoring. These measures contain performance standards to ensure that any discovered resources are not significantly impacted. Regulatory compliance and adherence to these measures will reduce impacts of the project to archaeological resources to a less-than-significant levels.

Disposition of Data: This report will be on file with Holland Partner Group, SCCIC at California State University, Fullerton, and SWCA's Pasadena Office.

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INTRODUCTION

Holland Partner Group (the project applicant), retained SWCA Environmental Consultants (SWCA) to conduct an archaeological resources assessment for the proposed 6300 West Third Street Project (project) in the city and county of Los Angeles, California. The project applicant proposes to demolish two existing buildings and surface parking lot and construct one 8-story, mixed-use commercial and residential building on a 7.5-acre property located at 6300 West Third Street (project site). The ground disturbing activities proposed by the project are defined as the area of potential impact (API).[1] The following study was conducted to analyze any potential impacts this project may have on archaeological resources located in the API to comply with the California Environmental Quality Act (CEQA), including relevant portions of Public Resources Code (PRC) Section 5024.1, Title 14 California Code of Regulations (CCR) Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1. The following report documents the methods and results of a confidential records search of the California Historical Resources Information System (CHRIS) and archival research used to evaluate the presence or likelihood of archaeological resources within the API.

SWCA Cultural Resources Project Manager Chris Millington, M.A., Registered Professional Archaeologist (RPA), and Trevor Gittelhough, M.A., conducted background research and prepared many of the figures. Additional figures were prepared by GIS Specialist John Walls. Mr. Millington, Mr. Gittelhough, and Senior Archaeologist Alex Wesson, B.A. co-authored the report. Cultural Resources Principal Investigator Heather Gibson, Ph.D., RPA, reviewed the report for quality assurance/quality control. The report was edited by Michelle Trevino. All figures in the report are included in Appendix A. Copies of the report are on file with SWCA's Pasadena Office and the South Central Coastal Information Center (SCCIC) at California State University, Fullerton.

PROJECT DESCRIPTION

The project site is at the southeast corner of Third Street and Fairfax Avenue in the city of Los Angeles, California (Figure 1–Figure 3). The project site is in the La Brea neighborhood of Los Angeles on a 7.5-acre parcel and is defined by the following Assessor's Parcel Numbers (APNs): 5509-018-003, 5509-018-004, 5509-018-005, 5509-018-009, 5509-018-010, 5509-018-012, and 5509-018-013. The site is a currently occupied by a two-story commercial structure with a basement level and an associated asphalt-paved parking lot. The site is bounded by Third Street to the north, Fairfax Avenue to the west, South Ogden Drive to the east, and to the south by a driveway and Hancock Park Elementary School. This location is plotted in an unsectioned portion of Township 1 South, Range 14 West as depicted on the U.S. Geological Survey (USGS) Hollywood, California, 7.5-minute topographic quadrangle.

The project applicant proposes to redevelop a portion of the existing commercial center located at the southeastern corner of Fairfax Avenue and Third Street. The eastern portion of the shopping center currently occupied by Kmart, other retail tenants, and surface parking would be demolished and replaced by new construction. The project anticipates 83,994 square feet of new commercial floor area, 5 stories of multi-family residential, three levels of above-grade parking and retail, and 2 levels of underground parking. Ground-disturbing construction activities would involve grading, excavation, shoring tie-backs, and drilling of soldier piles conducted using loaders, excavators, compactors, hauling trucks, and a drill. The maximum anticipated depth of excavation below the existing surface grade is estimated at 30 feet. The API for the

[1] Whereas the project's geographic location and results of the background research reference the project site, references to the API are made when potential impacts under CEQA are specifically being considered, e.g., in the discussion of archaeological resources sensitivity and impact analysis stated in the conclusion.

project includes all areas in which ground disturbances are proposed to occur. The API measures 3.25 acres (141,753 square feet) and occupies the eastern portion of the project site, approximately (Figure 3).

REGULATORY SETTING

State Regulations

The California Office of Historic Preservation (OHP), a division of the California Department of Parks and Recreation (DPR), performs certain duties described in the California PRC and maintaining the California Historic Resources Inventory and CRHR. The state-level regulatory framework also includes CEQA, which requires the identification, and mitigation if necessary, of substantial adverse impacts that may affect the significance of eligible historical and archaeological resources.

California Environmental Quality Act

CEQA requires a lead agency to analyze whether historic and/or archaeological resources may be adversely affected by a proposed project. Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1). Answering this question is a two-part process: first, the determination must be made whether the proposed project involves cultural resources. Second, if cultural resources are present, the proposed project must be analyzed for a potential "substantial adverse change in the significance" of the resource.

HISTORICAL RESOURCES

According to CEQA Guidelines Section 15064.5, for the purposes of CEQA, historical resources are:

- A resource listed in, or formally determined eligible…for listing in the CRHR (PRC 5024.1, 14 CCR 4850 et seq.).
- A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significance in a historic resources survey meeting the requirements of PRC Section 5024.1(g).
- Any object, building, structure, site, area, place, record, or manuscript that the lead agency determines to be eligible for national, state, or local landmark listing; generally, a resource shall be considered by the lead agency to be historically significant (and therefore a historic resource under CEQA) if the resource meets the criteria for listing on the CRHR (as defined in PRC Section 5024.1, 14 CCR 4852).

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity (as defined above) does not meet National Register of Historic Places (NRHP) criteria may still be eligible for listing in the CRHR.

According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the CRHR or is not included in a local register or survey shall not preclude the lead agency from determining that the resource may be a historical resource (PRC Section 5024.1). Pursuant to CEQA, a project with an effect that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (CEQA Guidelines, Section 15064.5[b]).

Substantial Adverse Change and Indirect Impacts to Historical Resources

CEQA Guidelines specify that a "substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate

surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines, Section 15064.5). Material impairment occurs when a project alters in an adverse manner or demolishes "those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion" or eligibility for inclusion in the NRHP, CRHR, or local register. In addition, pursuant to CEQA Guidelines Section 15126.2, the "direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects."

ARCHAEOLOGICAL RESOURCES

In terms of archaeological resources, PRC Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.
(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person.

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Sections 21083.2 and 21084.1). Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest program, identified as significant in historical resources surveys, or designated by local landmarks programs, may be nominated for inclusion in the CRHR. According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

- **Criterion 1:** It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- **Criterion 2:** It is associated with the lives of persons important in our past.
- **Criterion 3:** It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- **Criterion 4:** It has yielded, or may be likely to yield, information important in history or prehistory.

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity does not meet NRHP criteria may still be eligible for listing in the CRHR. While all sites are evaluated according to all four of the CRHR criteria, the eligibility for archaeological resources is typically considered under Criterion 4. Most prehistoric archeological sites are lacking identifiable or important association with specific persons or events of

regional or national history (Criteria 1 and 2), or lacking the formal and structural attributes necessary to qualify as eligible under Criterion 3.

An archaeological site may be considered significant if it displays one or more of the following attributes: chronologically diagnostic, functionally diagnostic, or exotic artifacts; datable materials; definable activity areas; multiple components; faunal or floral remains; archeological or architectural features; notable complexity, size, integrity, time span, or depth; or stratified deposits. Determining the period(s) of occupation at a site provides a context for the types of activities undertaken and may well supply a link with other sites and cultural processes in the region. Further, well-defined temporal parameters can help illuminate processes of culture change and continuity in relation to natural environmental factors and interactions with other cultural groups. Finally, chronological controls might provide a link to regionally important research questions and topics of more general theoretical relevance. As a result, the ability to determine the temporal parameters of a site's occupation is critical for a finding of eligibility under Criterion 4 (information potential). A site that cannot be dated is unlikely to possess the quality of significance required for CRHR eligibility or be considered a unique archaeological resource. The content of an archeological site provides information regarding its cultural affiliations, temporal periods of use, functionality, and other aspects of its occupation history. The range and variability of artifacts present in the site can allow for reconstruction of changes in ethnic affiliation, diet, social structure, economics, technology, industrial change, and other aspects of culture.

Treatment of Human Remains

The disposition of burials falls first under the general prohibition on disturbing or removing human remains under California Health and Safety Code (CHSC) Section 7050.5. More specifically, remains suspected to be Native American are treated under CEQA at CCR Section 15064.5; PRC Section 5097.98 illustrates the process to be followed if remains are discovered. If human remains are discovered during excavation activities, the following procedure shall be observed:

- Stop immediately and contact the County Coroner:

  1104 N. Mission Road
  Los Angeles, CA 90033
  323-343-0512 (8 am to 5 pm Monday through Friday) or
  323-343-0714 (After hours, Saturday, Sunday, and Holidays)

- If the remains are determined to be of Native American descent, the Coroner has 24 hours to notify the Native American Heritage Commission (NAHC).
- The NAHC will immediately notify the person it believes to be the most likely descendant (MLD) of the deceased Native American.
- The MLD has 48 hours to make recommendations to the owner, or representative, for the treatment or disposition, with proper dignity, of the human remains and grave goods.
- If the owner does not accept the MLD's recommendations, the owner or the MLD may request mediation by the NAHC.

Local Regulations

Los Angeles Historic-Cultural Monuments

Local landmarks in Los Angeles are known as Historic-Cultural Monuments (HCMs) and are under the aegis of the City of Los Angeles Planning Department (DCP), Office of Historic Resources (OHR). An HCM, monument, or local landmark is defined in the Cultural Heritage Ordinance as follows:

> [A] Historic-Cultural Monument (Monument) is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City of Los Angeles, including historic structures or sites in which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or which is identified with historic personages or with important events in the main currents of national, State or local history; or which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a study of a period, style or method of construction; or a notable work of a master builder, designer, or architect whose individual genius influenced his or her age (Municipal Code Section 22.171.7).

City of Los Angeles General Plan

The Conservation Element of the City of Los Angeles General Plan, adopted in September 2001, contains an objective (II-5) to protect the City's archaeological resources for historical, cultural, research and/or educational purposes. The Conservation Element establishes a policy to "continue to identify and protect significant archaeological and paleontological sites and/or resources known to exist or that are identified during land development, demolition of property modification activities" (City of Los Angeles 2001:II-5–6).

METHODS

The following section presents an overview of the methodology used to identify the potential for archaeological resources within the project site.

CHRIS Records Search

On July 5, 2018, SWCA conducted a confidential search of the CHRIS records at the SCCIC on the campus of California State University, Fullerton, to identify previously documented cultural resources within a 0.8-km (0.5-mile) radius of the project site, as well as any selectively chosen outside the radius to aid in the assessment of archaeological resource sensitivity. The SCCIC maintains records of previously documented archaeological resources and technical studies; it also maintains copies of the OHP's portion of the Historic Resources Inventory.

Confidential CHRIS results include specific information on the nature and location of sensitive archaeological sites, which should not be disclosed to the public or unauthorized persons and are exempt from the Freedom of Information Act. The information included in a confidential CHRIS records search is needed to assess the sensitivity for undocumented archaeological resources and to inform the impact analysis. The search included any previously recorded archaeological resources (i.e., excludes historic buildings) within the project site and surrounding 0.8-km (0.5-mile) area.

Archival Research

Concurrent with the confidential CHRIS records search, SWCA also reviewed property-specific historical and ethnographic context research to identify information relevant to the project site. Research focused on a variety of primary and secondary materials relating to the history and development of the project site, including historical maps, aerial and ground photographs, ethnographic reports, and other environmental data. Historical maps drawn to scale were georeferenced using ESRI ArcMAP v10.5 to show precise relationships to the project site. Sources consulted included the following publicly accessible data sources:

- City of Los Angeles OHR (SurveyLA);
- City of Los Angeles Department of Building and Safety (building permits);

- David Rumsey Historical Map Collection;
- Huntington Library Digital Archives;
- Library of Congress;
- Los Angeles Public Library Map Collection;
- Sanborn Fire Insurance Company Maps (Sanborn maps);
- USGS historical topographic maps;
- University of California, Santa Barbara Digital Library (aerial photographs); and
- University of Southern California Digital Library.

In addition to the above, SWCA reviewed the geotechnical report prepared for the project by Geocon West, Inc. (2018). Geocon West, Inc. conducted limited subsurface boring, identified the earth materials underlying the project site, noted their properties, and offered a preliminary discussion of geotechnical aspects of the project site.

Sensitivity Assessment

In circumstances where a known archaeological resource is not present, SWCA assessed the potential for the presence of an unidentified resource in the form of a buried archaeological site. That determination considers historical use of the project vicinity, broadly, and the physical setting, specifically, including an assessment of whether the setting is capable of containing buried archaeological material. Lacking any data specifically gathered to assess the presence or absence of archaeological material below the surface, the resulting sensitivity is by nature qualitative, ranging along a spectrum of increasing probability for encountering such material, designated here as low, moderate, and high.

SWCA assessed the sensitivity of the project site to contain non–Native American archaeological resources as well as Prehistoric and Historic-period Native American archaeological resources. Specific factors are considered for each respective resource type. Indicators of favorable habitability for Native Americans are proximity to natural features (e.g., perennial water source, plant or mineral resource, animal habitat) and other known Native American archaeological sites, flat topography, prominent viewsheds, and relatively dry conditions. Indicators of Historic-period (non-Native American) archaeological resources sensitivity include presence of bricks, glass, building materials, in geotechnical bores, historically documented occupation, and multiple episodes of construction and demolition of historical structures. Areas with a favorable setting for Native American habitation or temporary use, recorded historical occupation(s), soil conditions capable of preserving buried material, and little to no disturbances are considered to have a high sensitivity. Areas lacking these traits are considered to have low sensitivity. Areas with a combination of these traits as are considered as having moderate sensitivity.

ENVIRONMENTAL SETTING

The project site is in the Los Angeles Basin, a broad, level plain defined by the Pacific Ocean to the west, the Santa Monica Mountains and Puente Hills to the north, and the Santa Ana Mountains and San Joaquin Hills to the south. This extensive alluvial wash basin is filled with Quaternary alluvial sediments deposited as unconsolidated material eroded from the surrounding hills. Several major watercourses drain the Los Angeles Basin, including the Los Angeles, Rio Hondo, San Gabriel, and Santa Ana rivers. The Project site and vicinity are within a fully urbanized setting on an open aspect plain at an elevation of 56 meters (184 feet) above mean sea level. This site is located in the norther portion of the Peninsular Ranges and approximately 1,000 feet south of the Santa Monica Fault Zone. This location is 14.2 km (8.8 miles) northeast from the current shoreline of the Pacific Ocean. An 1894 topographic map shows that before urbanization, the project site was on a relatively level alluvial plain southeast of the Santa Monica

Mountains. One higher-order (i.e., smaller) streams is plotted east of the project site and is one of several small tributaries flowing into Ballona Creek—formerly the Los Angeles River—that would have seasonally drained water from the surrounding hills. Before the last decades of the nineteenth century the project site and surrounding parts of the alluvial plain were used for ranching, followed by extensive industrial and commercial development during the late nineteenth and early twentieth centuries.

Geocon West Inc. (Geocon) took six geotechnical bores across the entirety of the project site measuring 20 cm (8 inches) in diameter and extended 4.75 m (15.5 feet) to 30.6 m (100.5 feet) below the concrete surface. The initial 1.5 m (5.0 feet) of the bore was described as fill composed of loose silty sand. Natural alluvial sediments composed the remainder of the sample and may extend past the 30.6 m (100.5 feet) bored for this project (Geocon 2018). The alluvium includes varying compositions of silty sand and sandy silt and sands (Geocon 2018). These alluvial deposits are consistent with depositional trends for the Los Angeles basin.

CULTURAL SETTING

Prehistory

Prehistoric Overview

In the last several decades, researchers have devised numerous prehistoric chronological sequences to aid in understanding cultural changes in southern California. Building on early studies and focusing on data synthesis, Wallace (1955, 1978) developed a prehistoric chronology for the southern California coastal region that is still widely used today and is applicable to near-coastal and many inland areas. Four horizons are presented in Wallace's prehistoric sequence: Early Man, Milling Stone, Intermediate, and Late Prehistoric. Although Wallace's 1955 synthesis initially lacked chronological precision due to a paucity of absolute dates (Moratto 1984:159), this situation has been alleviated by the availability of thousands of radiocarbon dates obtained by southern California researchers in the last three decades (Byrd and Raab 2007:217). As such, several revisions were subsequently made to Wallace's 1955 synthesis using radiocarbon dates and projectile point assemblages (e.g., Koerper and Drover 1983; Koerper et al. 2002; Mason and Peterson 1994). The summary of prehistoric chronological sequences for southern California coastal and near-coastal areas presented below is a composite of information in Wallace (1955) and Warren (1968), as well as more recent studies, including Koerper and Drover (1983).

HORIZON I: EARLY MAN (CA. 10,000–6,000 BC)

The earliest accepted dates for archaeological sites on the southern California coast are from two of the northern Channel Islands, located off the coast of Santa Barbara. On San Miguel Island, Daisy Cave clearly establishes the presence of people in this area approximately 10,000 years ago (Erlandson 1991:105). On Santa Rosa Island, human remains have been dated from the Arlington Springs site to approximately 13,000 years ago (Johnson et al. 2002). Present-day Orange and San Diego counties contain several sites dating from 9,000 to 10,000 years ago (Byrd and Raab 2007:219; Macko 1998:41; Mason and Peterson 1994:55–57; Sawyer and Koerper 2006). Although the dating of these finds remains controversial, several sets of human remains from the Los Angeles Basin (e.g., "Los Angeles Man," "La Brea Woman," and the Haverty skeletons) apparently date to the Middle Holocene, if not earlier (Brooks et al. 1990; Erlandson et al. 2007:54).

Recent data from Horizon I sites indicate that the economy was a diverse mixture of hunting and gathering, with a major emphasis on aquatic resources in many coastal areas (e.g., Jones et al. 2002), and a greater emphasis on large-game hunting inland.

HORIZON II: MILLING STONE (6,000–3,000 BC)

Set during a drier climatic regime than the previous horizon, the Milling Stone horizon is characterized by subsistence strategies centered on collecting plant foods and small animals. The importance of the seed processing is apparent in the dominance of stone grinding implements in contemporary archaeological assemblages, namely milling stones (metates) and handstones (manos). Recent research indicates that Milling Stone horizon food procurement strategies varied in both time and space, reflecting divergent responses to variable coastal and inland environmental conditions (Byrd and Raab 2007:220).

HORIZON III: INTERMEDIATE (3,000 BC–AD 500)

The Intermediate horizon is characterized by a shift toward a hunting and maritime subsistence strategy, along with a wider use of plant foods. An increasing variety and abundance of fish, land mammal, and sea mammal remains are found in sites from this horizon along the California coast. Related chipped stone tools suitable for hunting are more abundant and diversified, and shell fishhooks became part of the toolkit during this period. Mortars and pestles became more common during this period, gradually replacing manos and metates as the dominant milling equipment and signaling a shift away from the processing and consuming of hard seed resources to the increasing importance of the acorn (e.g., Glassow et al. 1988; True 1993).

HORIZON IV: LATE PREHISTORIC (AD 500–HISTORIC CONTACT)

In the Late Prehistoric horizon, there was an increase in the use of plant food resources in addition to an increase in land and sea mammal hunting. There was a concomitant increase in the diversity and complexity of material culture during the Late Prehistoric horizon, demonstrated by more classes of artifacts. The recovery of a greater number of small, finely chipped projectile points suggests increased use of the bow and arrow rather than the atlatl (spear thrower) and dart for hunting. Steatite cooking vessels and containers are also present in sites from this time, and there is an increased presence of smaller bone and shell circular fishhooks; perforated stones; arrow shaft straighteners made of steatite; a variety of bone tools; and personal ornaments such as beads made from shell, bone, and stone. There was also an increased use of asphalt for waterproofing and as an adhesive. Late Prehistoric burial practices are discussed in the Ethnographic Overview section below.

By AD 1000, fired clay smoking pipes and ceramic vessels were being used at some sites (Drover 1971, 1975; Meighan 1954; Warren and True 1961). The scarcity of pottery in coastal and near-coastal sites implies that ceramic technology was not well developed in that area, or that occupants were trading with neighboring groups to the south and east for ceramics. The lack of widespread pottery manufacture is usually attributed to the high quality of tightly woven and watertight basketry that functioned in the same capacity as ceramic vessels.

During this period, there was an increase in population size accompanied by the advent of larger, more permanent villages (Wallace 1955:223). Large populations and, in places, high population densities are characteristic, with some coastal and near-coastal settlements containing as many as 1,500 people. Many of the larger settlements were permanent villages in which people resided year-round. The populations of these villages may have also increased seasonally.

In Warren's (1968) cultural ecological scheme, the period between AD 500 and European contact, which occurred as early as 1542, is divided into three regional patterns: Chumash (Santa Barbara and Ventura counties), Takic/Numic (Los Angeles, Orange, and western Riverside counties), and Yuman (San Diego County). The seemingly abrupt introduction of cremation, pottery, and small triangular arrow points in parts of modern-day Los Angeles, Orange, and western Riverside counties at the beginning of the Late Prehistoric period is thought to be the result of a Takic migration to the coast from inland desert regions. Modern

Gabrielino, Juaneño, and Luiseño people in this region are considered the descendants of the Uto-Aztecan, Takic-speaking populations that settled along the California coast in this period.

Ethnographic Overview

The project site is in an area historically occupied by the Gabrielino (Bean and Smith 1978:538; Kroeber 1925: Plate 57). Surrounding native groups included the Chumash and Tatataviam/Alliklik to the north, the Serrano to the east, and the Luiseño/Juaneño to the south. There is well-documented interaction between the Gabrielino and many of their neighbors in the form of intermarriage and trade.

The name "Gabrielino" (sometimes spelled Gabrieleno or Gabrieleño) denotes those people who were administered by the Spanish from Mission San Gabriel. This group is now considered a regional dialect of the Gabrielino language, along with the Santa Catalina Island and San Nicolas Island dialects (Bean and Smith 1978:538). In the post-European contact period, Mission San Gabriel included natives of the greater Los Angeles area, as well as members of surrounding groups such as Kitanemuk, Serrano, and Cahuilla. There is little evidence that the people we call Gabrielino had a broad term for their group (Dakin 1978:222); rather, they identified themselves as an inhabitant of a specific community with locational suffixes (e.g., a resident of Yaanga was called a Yabit, much the same way that a resident of New York is called a New Yorker; Johnston 1962:10).

Native words suggested as labels for the broader group of Native Americans in the Los Angeles region include Tongva (or Tong-v; Merriam 1955:7–86) and Kizh (Kij or Kichereno; Heizer 1968:105), although there is evidence that these terms originally referred to local places or smaller groups of people within the larger group that we now call Gabrielino. Nevertheless, many present-day descendants of these people have taken on Tongva as a preferred group name because it has a native rather than Spanish origin (King 1994:12). The term Gabrielino is used in the remainder of this report to designate native people of the Los Angeles Basin and their descendants.

The Gabrielino subsistence economy was centered on gathering and hunting. The surrounding environment was rich and varied, and the tribe exploited mountains, foothills, valleys, deserts, riparian, estuarine, and open and rocky coastal eco-niches. Like that of most native Californians, acorns were the staple food (an established industry by the time of the Early Intermediate period). Inhabitants supplemented acorns with the roots, leaves, seeds, and fruits of a variety of flora (e.g., islay, cactus, yucca, sages, and agave). Freshwater and saltwater fish, shellfish, birds, reptiles, and insects, as well as large and small mammals, were also consumed (Bean and Smith 1978:546; Kroeber 1925:631–632; McCawley 1996:119–123, 128–131).

The Gabrielino used a variety of tools and implements to gather and collect food resources. These included the bow and arrow, traps, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks. Groups residing near the ocean used oceangoing plank canoes and tule balsa canoes for fishing, travel, and trade between the mainland and the Channel Islands (McCawley 1996:7). Gabrielino people processed food with a variety of tools, including hammer stones and anvils, mortars and pestles, manos and metates, strainers, leaching baskets and bowls, knives, bone saws, and wooden drying racks. Food was consumed from a variety of vessels. Catalina Island steatite was used to make ollas and cooking vessels (Blackburn 1963; Kroeber 1925:629; McCawley 1996:129–138).

At the time of Spanish contact, the basis of Gabrielino religious life was the Chinigchinich cult, centered on the last of a series of heroic mythological figures. Chinigchinich gave instruction on laws and institutions, and also taught the people how to dance, the primary religious act for this society. He later withdrew into heaven, where he rewarded the faithful and punished those who disobeyed his laws (Kroeber 1925:637–638). The Chinigchinich religion seems to have been relatively new when the Spanish arrived.

It was spreading south into the southern Takic groups even as Christian missions were being built and may represent a mixture of native and Christian belief and practices (McCawley 1996:143–144).

Deceased Gabrielino were either buried or cremated, with inhumation more common on the Channel Islands and the neighboring mainland coast, and cremation predominating on the remainder of the coast and in the interior (Harrington 1942; McCawley 1996:157). Remains were buried in distinct burial areas, either associated with villages or without apparent village association (Altschul et al. 2007). Cremation ashes have been found in archaeological contexts buried within stone bowls and in shell dishes (Ashby and Winterbourne 1966:27), as well as scattered among broken ground stone implements (Cleland et al. 2007). Archaeological data such as these correspond with ethnographic descriptions of an elaborate mourning ceremony that included a variety of offerings, including seeds, stone grinding tools, otter skins, baskets, wood tools, shell beads, bone and shell ornaments, and projectile points and knives. Offerings varied with the sex and status of the deceased (Dakin 1978:234–365; Johnston 1962:52–54; McCawley 1996:155–165).

Native American Communities in Los Angeles

The settlement of Native American communities in Southern California during the prehistoric period has been studied extensively by archaeologists over time, including Chace (1969) who argued that coastal areas were used mainly for food procurement while villages were located inland; Hudson (1969, 1971) who argued that Native Americans moved seasonally between villages, located in sheltered coastal areas, inland prairies, and mountain areas, and temporal camps, located on the exposed coast; and Mason and Petersen (1994) who argued that major estuaries in the region were territory centers for clan-based groups in *Rancherias*, which were occupied year round while several smaller sites were used to gather resources during various times of the year (Douglass et al. 2016: 61-62). Generally, all models share the assumption that Native American groups in the region utilized various habitats, moving throughout the region at different times throughout the year. These prehistoric subsistence and settlement patterns are generally believed to have remained the same until the first permanent Native American settlement was established at Mission San Gabriel (Douglass et al. 2016: 385).

The precise location of most Native American villages in the Los Angeles Basin is subject to much speculation, maps depicting villages throughout the greater Los Angeles area show these sites located along rivers or streams, and several maps have been produced throughout the twentieth century depicting this settlement pattern (Figure 4). Native American place-names referred to at the time of Spanish contact did not necessarily represent a continually occupied settlement within a discrete location, rather in at least some cases, the communities were represented by several smaller camps scattered throughout an approximate geography, shaped by natural features that were subject to change over generations (see Johnston 1962:122). Further complicating any efforts to pin-point the location of a village site is the fact that many of the villages had long since been abandoned by the time ethnographers, anthropologists, and historians attempted to document any of their locations. By the time any such effort was made, Native American lifeways had been irrevocably changed and the former village sites or areas were impacted by urban and agricultural development. In some cases Spanish-era Rancho grants may have bounded Indian villages, and in others the Spanish ranchos adopted Native American placenames, such as *Kaweenga*, *Tujunga*, *Topanga*, and *Cucamonga.* Alternative names and spellings for communities, and conflicting reports on their meaning or locational reference further complicate efforts at determining the location of actual village sites. McCawley quotes Kroeber for his remarks on the difficulty of reliably locating former village sites, writing that "the opportunity to prepare a true map of village locations 'passed away 50 years ago'" (Kroeber 1925:616 cited in McCawley 1996: 32). Thus, even with ethnographic, historical, and archaeological evidence, it can be difficult to conclusively establish whether any given assemblage represents the remains of the former village site.

The nearest named villages to the project site within the Los Angeles Basin include *Guaspet/Waachnga*, near the Ballona wetlands, and *Kuruvunga* to the east/southeast near Santa Monica, and Yaangna, Geveronga, and Maawnga to the east/northeast near downtown Los Angeles. The closest of these is *Kuruvunga* (also known as *Kuruvunga* Springs or Tongva Springs), near present-day University High School, but taken together the named sites are all located within a 9.5- to 12-km (5.9- to 7.5-mile) radius of the project site. Other unnamed Native American settlements have been documented approximately 4.5 km (2.8 miles) south of the project site near wetlands (for which Las Cienegas is named) formed along the former course of the Los Angeles River (now Ballona Creek).

The project site is not near any former Gabrielino communities listed in ethnographic sources. A major source of asphaltum (La Brea Tar Pits) is located approximately 1 km (0.6 miles) to the southeast of the project site. The asphaltum source at the La Brea Tar Pits is known to have been an important resource for the Gabrielino, and human remains found at the La Brea Tar Pits site suggest it was known to Native Americans more than 10,000 years ago. Also, further south of the La Brea Tar Pits, water features including perennial springs and small wetlands formed along tributaries of Ballona Creek (formerly Los Angeles River) are known to have existed along the southeast-facing toeslopes of the Santa Monica Mountains and would have been frequented by Native Americans. Smaller habitation sites were not typically noted by early ethnographers and Spanish colonizers; therefore, the lack of explicit data pointing to a site in the area does not indicate a lack of Native American activity in the area. Captain Gaspar de Portolá's expedition across the Los Angeles Basin followed a route from nearby Gabrielino settlements to the asphaltum source (Seaman 1914).

History

Post-contact history for the state of California is generally divided into three periods: the Spanish period (1769–1822), Mexican period (1822–1848), and American period (1848–present). Although Spanish, Russian, and British explorers visited the area for brief periods between 1529 and 1769, the Spanish period in California begins with the establishment in 1769 of a settlement at San Diego and the founding of Mission San Diego de Alcalá, the first of 21 missions constructed between 1769 and 1823. Independence from Spain in 1821 marks the beginning of the Mexican period, and the signing of the Treaty of Guadalupe Hidalgo in 1848, ending the Mexican–American War, signals the beginning of the American period, when California became a territory of the United States.

Spanish Period (1769–1822)

Spanish explorers made sailing expeditions along the coast of southern California between the mid-1500s and mid-1700s. In search of the legendary Northwest Passage, Juan Rodríquez Cabríllo stopped in 1542 at present-day San Diego Bay. With his crew, Cabríllo explored the shorelines of present Catalina Island as well as San Pedro and Santa Monica bays. Much of the present California and Oregon coastline was mapped and recorded in the next half-century by Spanish naval officer Sebastián Vizcaíno. Vizcaíno's crew also landed on Santa Catalina Island and at San Pedro and Santa Monica bays, giving each location its long-standing name. The Spanish crown laid claim to California based on the surveys conducted by Cabríllo and Vizcaíno (Bancroft 1886:96–99; Gumprecht 2001:35).

More than 200 years passed before Spain began the colonization and inland exploration of Alta California. The 1769 overland expedition by Captain Gaspar de Portolá marks the beginning of California's Historic period, occurring just after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. With a band of 64 soldiers, missionaries, Baja (lower) California Native Americans, and Mexican civilians, Portolá established the Presidio of San Diego, a fortified military outpost, as the first Spanish settlement in Alta California. In July 1769, while Portolá was exploring Southern California, Franciscan Fr. Junípero Serra founded Mission San Diego de Alcalá at

Presidio Hill, the first of the 21 missions that would be established in Alta California by the Spanish and the Franciscan Order between 1769 and 1823.

The Portolá expedition first reached the present-day boundaries of Los Angeles in August 1769, thereby becoming the first Europeans to visit the area. Father Juan Crespí, a member of the expedition, named the campsite by the river Nuestra Señora la Reina de los Angeles de la Porciúncula or "Our Lady the Queen of the Angeles of the Porciúncula." Two years later, Fr. Junípero Serra returned to the valley to establish a Catholic mission, the Mission San Gabriel Arcángel, on September 8, 1771 (Engelhardt 1927). In 1781, a group of 11 Mexican families traveled from Mission San Gabriel Arcángel to establish a new pueblo called El Pueblo de la Reyna de Los Angeles ("the Pueblo of the Queen of the Angels"). This settlement consisted of a small group of adobe-brick houses and streets and would eventually be known as the Ciudad de Los Angeles ("City of Angels").

Mexican Period (1822–1848)

A major emphasis during the Spanish period in California was the construction of missions and associated presidios to integrate the Native American population into Christianity and communal enterprise. Incentives were also provided to bring settlers to pueblos or towns, but just three pueblos were established during the Spanish period, only two of which were successful and remain as California cities (San José and Los Angeles). Several factors kept growth within Alta California to a minimum, including the threat of foreign invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion and warfare, New Spain (Mexico and the California territory) won independence from Spain in 1821. In 1822, the Mexican legislative body in California ended isolationist policies designed to protect the Spanish monopoly on trade, and decreed California ports open to foreign merchants.

Extensive land grants were established in the interior during the Mexican period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. The secularization of the missions following Mexico's independence from Spain resulted in the subdivision of former mission lands and establishment of many additional ranchos.

During the supremacy of the ranchos (1834–1848), landowners largely focused on the cattle industry and devoted large tracts to grazing. Cattle hides became a primary southern California export, providing a commodity to trade for goods from the east and other areas in the United States and Mexico. The number of nonnative inhabitants increased during this period because of the influx of explorers, trappers, and ranchers associated with the land grants. The rising California population contributed to the introduction and rise of diseases foreign to the Native American population, who had no associated immunities.

American Period (1848–Present)

War in 1846 between Mexico and the United States began at the Battle of Chino, a clash between resident Californios and Americans in the San Bernardino area. This battle was a defeat for the Americans and bolstered the Californios' resolve against American rule, emboldening them to continue the offensive in later battles at Dominguez Field and in San Gabriel (Beattie 1942). However, this early skirmish was not a sign of things to come and the Americans were ultimately the victors of this two-year war. The Mexican–American War officially ended with the Treaty of Guadalupe Hidalgo in 1848, which resulted in the annexation of California and much of the present-day southwest, ushering California into its American period.

California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. territories. Horticulture and livestock, based primarily on cattle as the currency and staple of the rancho system, continued to dominate the southern California economy through 1850s. The Gold Rush began in 1848; with the influx of people seeking gold, cattle were no longer

desired mainly for their hides, but also as a source of meat and other goods. During the 1850s cattle boom, rancho vaqueros drove large herds from southern to northern California to feed that region's burgeoning mining and commercial boom. Cattle were at first driven along major trails or roads such as the Gila Trail or Southern Overland Trail, then were transported by trains when available. The cattle boom ended for southern California as neighbor states and territories drove herds to northern California at reduced prices. Operation of the huge ranchos became increasingly difficult, and droughts severely reduced their productivity (Cleland 1941).

On April 4, 1850, only two years after the Mexican–American War and five months prior to California's achieving statehood, Los Angeles was officially incorporated as an American city. Settlement of the Los Angeles region continued steadily throughout the Early American period. Los Angeles County was established on February 18, 1850, one of 27 counties established in the months prior to California's acquiring official statehood in the United States. At that time, the city was bordered on the north by the Los Felis and the San Rafael Land Grants and on the south by the San Antonio Luge Land Grant. Many of the ranchos in the area now known as Los Angeles County remained intact after the United States took possession of California; however, a severe drought in the 1860s resulted in many of the ranchos being sold or otherwise acquired by Americans. Most of these ranchos were subdivided into agricultural parcels or towns (Dumke 1944).

Ranching retained its importance through the mid-nineteenth century, and by the late 1860s, Los Angeles was one of the top dairy production centers in the country (Rolle 2003). By 1876, the county had a population of 30,000 (Dumke 1944:7). Los Angeles maintained its role as a regional business center, and the development of citriculture in the late 1800s and early 1900s further strengthened this status (Caughey and Caughey 1977). These factors, combined with the expansion of port facilities and railroads throughout the region, contributed to the impact of the real estate boom of the 1880s on Los Angeles (Caughey and Caughey 1977; Dumke 1944). By the late 1800s, government leaders recognized the need for water to sustain the growing population in the Los Angeles area. Irish immigrant William Mulholland personified the city's efforts for a stable water supply (Dumke 1944; Nadeau 1997). By 1913, the City of Los Angeles had purchased large tracts of land in the Owens Valley, and Mulholland planned and completed the construction of the 240-mile aqueduct that brought the valley's water to the city (Nadeau 1997).

Los Angeles continued to grow in the twentieth century, in part due to the discovery of oil in the area and its strategic location as a wartime port. The county's mild climate and successful economy continued to draw new residents in the late 1900s, with much of the county transformed from ranches and farms into residential subdivisions surrounding commercial and industrial centers. Hollywood's development into the entertainment capital of the world and southern California's booming aerospace industry were key factors in the county's growth in the twentieth century.

Los Angeles: From Pueblo to City

On September 4, 1781, 44 settlers from Sonora, Mexico, accompanied by the governor, soldiers, mission priests, and several Native Americans, arrived at a site along the Rio de Porciúncula (later renamed the Los Angeles River), which was officially declared El Pueblo de Nuestra Señora de los Angeles de Porciúncula, or the Town of Our Lady of the Angels of Porciúncula (Robinson 1979:238; Ríos-Bustamante 1992; Weber 1980). The site chosen for the new pueblo was elevated on a broad terrace 0.8 km (0.5 mile) west of the river (Gumprecht 2001). By 1786, the area's abundant resources allowed the pueblo to attain self-sufficiency, and funding by the Spanish government ceased.

Efforts to develop ecclesiastical property in the pueblo began as early as 1784 with the construction of a small chapel northwest of the plaza. Though little is known about this building, it was located at the pueblo's original central square near the corner of present-day Cesar Chavez Avenue and North Broadway

(Newcomb 1980:67–68; Owen 1960:7). Following continued flooding, however, the pueblo was relocated to its current location on higher ground, and the new town plaza soon emerged.

Alta California became a state in 1821, and the town slowly grew as the removal of economic restrictions attracted settlers to Los Angeles. The population continued to expand throughout the Mexican period and on April 4, 1850, only 2 years after the Mexican–American War and 5 months prior to California earning statehood, the city of Los Angeles was formally incorporated. Los Angeles maintained its role as a regional business center in the early American period and the transition of many former rancho lands to agriculture, as well as the development of citriculture in the late 1800s, further strengthened this status (Caughey and Caughey 1977). These factors, combined with the expansion of port facilities and railroads throughout the region, contributed to the real estate boom of the 1880s in Los Angeles (Caughey and Caughey 1977; Dumke 1944).

Newcomers poured into the city, nearly doubling the population between 1870 and 1880, resulting in an increased demand for public transportation options. As the city neared the end of the nineteenth century, numerous privately owned passenger rail lines were in place. Though early lines were horse and mule drawn, they were soon replaced by cable cars in the early 1880s and by electric cars in the late 1880s and early 1890s. Many of these early lines were subsequently consolidated into Henry E. Huntington's Los Angeles Railway Company (LARy) in 1898, which reconstructed and expanded the system into the twentieth century and became the main streetcar system for central Los Angeles, identified by their iconic "yellow cars." During this period, Huntington also developed the much larger Pacific Electric system (also known as the "red cars") to serve the greater Los Angeles area. Just as the horse-and-buggy street cars were replaced by electric cars along the same routes, gas-powered buses (coaches) eventually served former yellow car routes. Both the red cars and LARy served Los Angeles until they were eventually discontinued in the early 1960s.

Los Angeles continued to grow outward from the city core in the twentieth century in part due to the discovery of oil and its strategic location as a wartime port. The military presence led to the growth in the aviation and eventually aerospace industries in the city and region. Hollywood became the entertainment capital of the world through the presence of the film and television industries and continues to tenuously maintain that position. With nearly 4 million residents, Los Angeles is the second largest city in the United States (by population), and it remains a city with worldwide influence that continues to struggle with its population's growth and needs.

Historical Development of the Project Site

Once situated amid barley and wheat fields, in the late 1800s the project site was on the margin of the great expanse beyond the western city limits of Los Angeles. During the nineteenth century there were very few landmarks between the agricultural fields and grazing lands that lay beyond the city boundary and the Pacific Ocean. In his memoir, merchant Harris Newmark describes the surroundings in 1854 as "one huge field, practically unimproved and undeveloped" extending from Spring Street to the coast (Newmark 1930:112). During the earlier division of Spanish holdings into land grants, a vast public space separated the La Brea and Las Cienegas Ranchos to the west and the city of Los Angeles to the east (Figure 8–Figure 10). Los Angeles annexed the portion of this land that includes the project site as the Western Addition in 1896.

After the 1896 annexation of the Western Addition, the city limit had expanded west to Vermont Avenue and road alignments were shifted to accommodate the modern urban grid oriented to the cardinal directions (Figure 11). Though other nearby areas were subdivided, much of Rancho La Brea continued as open ranch land until the early twentieth century with the discovery of oil. Even after the oil fields began to dry up, the project site was still open vacant land (Figure 12) until 1950 with the development of the nearby Park La

Brea, and the Town & Country Village within the project site (Figure 13). The Town & Country Village was subsequently redeveloped during the 1960s that included demolition of the previous commercial building and new construction of the buildings currently occupying the project site. It is unclear to what extent the redevelopment maintained portions of the parking lot in the northern portion of the project site.

RANCHO LA BREA

In 1803, Marino Castro arrived in Los Angeles with a viceregal license to occupy the area of La Brea and form a settlement there (Seaman 1914). The mission friars, however, objected as they were not only using the land to graze their cattle but also the asphaltum from the large pits to roof their adobe buildings. This extended their control over the land for an additional 25 years before Governor Exheandia granted one square league (4,444.4 acres) to Antonio Rocha in 1928 (Guinn 1910; Parks 1929; Seaman 1914). This was unique in that Antonio Rocha was not a Mexican citizen but a Portuguese immigrant, making Rancho La Brea the first land granted to a foreigner. Only by forming a partnership with one Nemesio Dominguez were they able to get Rancho La Brea (Bertao and Dias 1987). Despite their ownership of the land, the Pueblo of Los Angeles retained possession of the tar pits to provide for the citizens of the city.

With his death in 1837, Rocha's window took control of the land, and in 1852 Nemesio Dominguez sold his interest to her and Rocha's heirs when the United States attempted to take possession of the land (Bertao and Dias 1987). Rocha's son, Jose Gorge Rocha, eventually sold Henry Hancock all rights and interests to Rancho La Brea in 1860, but not before James Thompson had signed a five-year lease around 1852. Hancock proceeded to sell portions of his holdings, including the 480 acres leased to James Thompson in 1868. An 1870 Los Angeles County Assessor map (Figure 7) identifies Thompson's land as including the entire northwest quarter of Section 21 (and project site), as well as portions of adjoining quarter-sections to the west and northwest. The map shows a structure in the quarter of Section 21, north of the project site, situated mid-way along a trail heading east/southeast from a building on the Rocha property and terminating south/southeast of the project site at some structures annotated as "Tar" (La Brea Tar Pits). Known as "Don Santiago," Thompson was an established ranchero and in addition to grazing sheep, served as Los Angeles Sheriff in the 1850s. It's unclear whether the adobe building constructed on the property (identified on the 1870 map) was built by Thompson, if it had been constructed earlier and left unoccupied by Rocha, or if Thompson had constructed a new adobe using and older foundation (Wallach 2013). Bankruptcy in 1880 prompted Thompson to sell his Rancho La Brea land holdings to dairy farmers Arthur Freemont Gilmore and Julius Carter. An 1880 map delineating land owners within Rancho La Brea shows the Thompson property in more detail, including the adobe structure and unimproved trails leading south to the tar pits (annotated as "refinery"), and an improved road (3rd Street) passing through the southern portion.

GILMORE OIL COMPANY

When Arthur Freemont Gilmore bought the land from James Thompson, he originally desired to make it into a dairy farm. This changed drastically in the 1890s when he discovered oil, the Salt Lake Field, under his land. He started the Gilmore Oil Company, in 1899 and although it began small, with just two wells, the Gilmore Oil Company grew to be the dominant oil company on the west coast (Hinkley 2012). By 1939 the company controlled more than 2,000 acres of oil property and owned four refineries, 50 bulk distribution centers, and 3,500 gas stations in three states, all from its headquarters in Los Angeles. When Arthur Fremont Gilmore died in 1918 his son, Earl Bell Gilmore, was the driving force behind the Gilmore Oil Company. Earl Gilmore had a flair for promotion that included radio jingles, the famous "Red Lion" logo and "Blu-Green" gas, sponsorship of races of all types of vehicles from planes to boats to cars, and even a traveling circus complete with lions (Seims and Darr 2014). Oil soon dried up on the Los Angeles oil fields owned by the Gilmore Oil Company, and the land was left vacant until the 1930s with the development of the Los Angeles Farmers Market, The Gilmore Stadium, and the Gilmore Drive-in (Hamlin and Arena 2009).

RESULTS

CHRIS Records Search

Previously Conducted Studies

Results of the records search at the SCCIC indicate that 56 cultural resource studies have been conducted within 0.8 km (0.5 mile) of the project site (Table 2). Of these, 26 explicitly address archaeological resources, whereas four are focused on historic architecture, nine were conducted as a literature search and/or management and planning reports, eight were general research, and nine were overview studies conducted for the region. None of the studies were conducted specifically within the project site; however, several studies have been conducted in areas directly adjacent to the current project site. These include four studies (LA-1932, LA-02881, LA-07368, and LA-06444) conducted between 1988 and 2003 in association with the Park La Brea development to the east, and two studies (LA-01939 and LA-02763) conducted between 1988 and 1990 to the north as environmental reviews for the Farmer's Market and Grove commercial properties.

Table 1. Previously Conducted Cultural Resource Studies within 0.5 miles of the Project Site

SCCIC Report Number	Title	Study Type	Author: Affiliation	Year	Relationship to Project Site
LA-00128	Evaluation of the Archaeological Resources and Potential Impact of Proposed Pan Pacific Park, Los Angeles County	Archaeological, Field Study	Kaufman, Susan Hector (University of California, Los Angeles Archaeological Survey)	1976	Outside
LA-01578	Technical Report Archaeological Resources Los Angeles Rapid Rail Transit Project Draft Environmental Impact Statement and Environmental Impact Report	Archaeological, Field Study	Anonymous (Westec Services, Inc.)	1983	Outside
LA-01932	Park La Brea EIR No. 88-347-2c (GPA) State Clearinghouse No. 88080307	Archaeological, Field Study	Anonymous (Michael Brandman Associates)	1989	Outside
LA-01939	Draft Environmental Impact Report EIR No. 87-515 Sub(zv)(yv)(zc) Sch. No. 87102102	Archaeological, Field Study	Anonymous (ETI)	1988	Outside
LA-01968	Cultural Resources Literature Review of Metro Rail Red Line Western Extension Alternatives, Los, Angeles, Los Angeles County, California	Literature Search	Bissell, Ronald M. (RMW Paleo Associates, Inc.)	1989	Outside
LA-02331	The La Brea Cogged Stone	Other Research	Salls, Roy A.	1978	Outside
LA-02360	The La Brea Atlatl Foreshafts: Inferences for the Millingstone Horizon	Other Research	Salls, Roy A.	1986	Outside
LA-02737	Chapter 19 the Shien'kan Site:	Archaeological, Other Research	Farnsworth, Laurie Wilkie, Janet Kipling, and Roy A. Salls	1986	Outside
LA-02763	EIR No. 87-515-sub(zv)(yz)(zc) State Clearinghouse No. 87102102	Management / Planning	Anonymous (Environmental Review Section)	1990	Outside
LA-02816	Native American Placenames in the Vicinity of the Pacific Pipeline: Part 2: Gaviota to the San Fernando Valley: Draft	Overview Report	King, Chester (Topanga Anthropological Consultants)	1993	N/A
LA-02881	Park La Brea Supplemental Draft EIR No. 88-347-zc (gpa)(sub)(cub) State Clearinghouse No. 88080307	Management / Planning	Anonymous (None)	1991	Outside

Table 1. Previously Conducted Cultural Resource Studies within 0.5 miles of the Project Site

SCCIC Report Number	Title	Study Type	Author: Affiliation	Year	Relationship to Project Site
LA-03465	Epic Discoveries I Made at La Brea	Other Research	Gipsman, Jacob (UCLA Department of Anthropology)	1973	Outside
LA-03466	A Delineation of My Experiences at Rancho La Brea	Other Research	Frost, David (UCLA Department of Anthropology)	1973	Outside
LA-03467	Epic Discoveries I Made at La Brea	Other Research	Gordon, Marlene (UCLA Department of Anthropology)	1973	Outside
LA-03468	The Ranch La Brea Project	Other Research	Gilden, Eugene R. (UCLA Department of Anthropology)	1973	Outside
LA-03471	Monitoring of Median Improvements, Wilshire Boulevard from Fairfax Avenue to La Brea Avenue	Monitoring	Turner, Robin, Mark Selverston, and Roberta S. Greenwood (Greenwood and Associates)	1996	Outside
LA-03496	Draft Environmental Impact Report Transit Corridor Specific Plan Park Mile Specific Plan Amendments	Management / Planning	Anonymous (Unknown)	0	Outside
LA-03501	Archaeological Record Search and Impact Evaluation for the Los Angeles Wastewater Program Management (NOS-NCOS) Project Los Angeles, California	Literature Search, Management / Planning	Dillon, Brian D.	1990	Outside
LA-03511	Assessment of the Archaeological Impact by the Development of the Waste Water Facilities Plan W.O. 31389	Overview Report	Romani, John F. (Northridge Archaeological Research Center, CSUN)	1977	N/A
LA-03583	The Los Angeles Basin and Vicinity: A Gazetteer and Compilation of Archaeological Site Information	Overview Report	Bucknam, Bonnie M. (Archaeological Research, Inc.)	1974	N/A
LA-03773	Preliminary Assessment of Potential Impacts and Evaluation of Cultural Resources Along Proposed Transit System Alignment Alternatives in the City of Los Angeles, Los Angeles County, California	Overview Report	Singer, Clay A. (Archaeological Resource Management Corp.)	1978	N/A
LA-03796	Technical Report of Cultural Resources Studies for the Proposed WTG-west, Inc. Los Angeles to San Francisco and Sacramento, California Fiber Optic Cable Project	Overview Report	(BioSystems Analysis, Inc.)	1989	N/A
LA-04323	Cultural Evolution in the Archaic/Mesolithic: A Research Design for the Los Angeles Basin	Overview Report	Hill, James N. (Archaeological Resource Management Corp.)	1985	N/A
LA-04410	Cultural Resource Assessment for the AT&T Wireless Services Facility Number 331, Located at 425 South Fairfax Avenue, City and County of Los Angeles, California	Archaeological, Field Study	Duke, Curt (LSA Associates, Inc.)	1999	Outside
LA-04518	The Miracle Mile of Wilshire Boulevard	Architectural/Historical	Rockey, David (The Archaeology of Los Angeles)	1999	Outside
LA-04558	Cultural Resource Assessment for Pacific Bell Mobile Services Facility La 421-03, in the County of Los Angeles, California	Literature Search	Duke, Curt (LSA Associates, Inc.)	1999	Outside

Table 1. Previously Conducted Cultural Resource Studies within 0.5 miles of the Project Site

SCCIC Report Number	Title	Study Type	Author: Affiliation	Year	Relationship to Project Site
LA-04578	Cultural Resource Assessment for Pacific Bell Mobile Services Facility La 421-01, County of Los Angeles, California	Literature Search	Duke, Curt (LSA Associates, Inc.)	1999	Outside
LA-05350	Cultural Resource Assessment for AT&T Wireless Services Facility Number R295.1, County of Los Angeles, Ca	Archaeological, Field Study	Duke, Curt (LSA Associates, Inc.)	2000	Outside
LA-05354	Archaeological Survey for the Fairfax Branch Library Project, Los Angeles, Ca	Archaeological, Field Study	Foster, John M. (Greenwood and Associates)	2001	Outside
LA-06442	The Grove at Farmers Market Phase I Archaeological Monitoring	Monitoring	Messick, Peter (Greenwood and Associates)	2002	Outside
LA-06444	Archaeological Monitor Report Three Parcels at Park La Brea Los Angeles, California	Monitoring	Greenwood, Roberta S. and Messick, Peter (Greenwood and Associates)	2002	Outside
LA-07178	Report on Cultural Resources Mitigation and Monitoring Activities Fluor/level (3) Los Angeles Local Loops	Excavation, Monitoring	Unknown (William Self Associates)	2001	Outside
LA-07359	Final Archaeological Mitigation Monitoring Report for the Park La Brea Parcel B Project Los Angeles, California	Monitoring	Gust, Sherri and Mary Pat Hickson (Cogstone Resource Management, Inc.)	2003	Outside
LA-07363	The Grove at Farmers Market, the Farmers Market Expansion Project, & the Gilmore Adobe Landscaping Project Los Angeles, Los Angeles County, California	Monitoring	Dietler, Sara, Gust, Sherri, and Alarcon, Sara (Cogstone Resource Management, Inc.)	2003	Outside
LA-07368	Final Archaeological Mitigation Monitoring Report for the Park La Brea Parcel a Project Los Angeles California	Monitoring, Other Research	Gust, Sherri and Mary Pat Hickson (Cogstone Resource Management, Inc.)	2003	Outside
LA-07369	Final Archaeological and Paleontological Mitigation Monitoring Report for the Park La Brea Community Center Project Los Angeles County, California	Excavation, Monitoring	Gust, Sherri and Mary Pat Hickson (Cogstone Resource Management, Inc.)	2003	Outside
LA-07370	Archaeological and Paleontological Monitoring Report for Phase I of the Grove at Farmers Market, (CA-LAN-3045h) Los Angeles, Los Angeles County, California	Monitoring	Gust, Sherri and Sara Dietler (Cogstone Resource Management, Inc.)	2003	Outside
LA-07562	Additional Information for DSEIS, Core Study Alignments 1, 2, 3, 4, and 5	Architectural / Historical, Evaluation, Literature Search	Greenwood, Roberta S. (Greenwood and Associates)	1987	Outside
LA-07565	Technical Report Archaeology Los Angeles Rail Rapid Transit Project "Metro Rail" Core Study, Candidate Alignments 1 to 5	Management/Planning	Unknown (Greenwood and Associates)	1987	Outside
LA-07566	Technical Report DSEIS, Core Study Alignments 1, 2, 3, 4, and 5	Archaeological, Architectural / Historical, Other Research	Hatheway, Roger G. and Peter, Kevin J. (Greenwood and Associates)	1987	Outside

Table 1. Previously Conducted Cultural Resource Studies within 0.5 miles of the Project Site

SCCIC Report Number	Title	Study Type	Author: Affiliation	Year	Relationship to Project Site
LA-07568	Paleontological Resource Survey and Impact Evaluation for a Proposed Rapid Transit System in the City of Los Angeles, Los Angeles County, California	Overview Report	Bernor, Raymond L. (Archaeological Resource Management Corp.)	1978	N/A
LA-08020	Technical Report: Cultural Resources Los Angeles Rail Rapid Transit Project "metro Rail" Core Study	Architectural / Historical, Evaluation	Anonymous (Southern California Rapid Transit District)	1987	Outside
LA-09203	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate SV11564B (RT 5967 W. 3rd), 5967 West 3rd Street, Los Angeles, Los Angeles County, California	Archaeological, Field Study	Bonner, Wayne H. (Michael Brandman Associates)	2007	Outside
LA-09226	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate SV11560A (Wilshire Medical RT), 6221 Wilshire Boulevard, Los Angeles, Los Angeles County, California	Archaeological, Field Study	Bonner, Wayne H. (Michael Brandman Associates)	2007	Outside
LA-09540	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate SV11696A (Cabinet City), 425 South Fairfax Ave., Los Angeles, Ca	Archaeological, Field Study	Bonner, Wayne H. and Kathleen A. Crawford (Michael Brandman Associates)	2009	Outside
LA-09541	Direct APE Historic Architectural Assessment for T-Mobile USA Candidate SV11696A (Cabinet City), 425 South Fairfax Avenue, Los Angeles, California	Architectural/Historical, Evaluation	Bonner, Wayne H. and Kathleen A. Crawford (Michael Brandman Associates)	2009	Outside
LA-10507	Technical Report - Historical/Architectural Resources - Los Angeles Rail Rapid Transit Project "Metro Rail" Draft Environmental Impact Statement and Environmental Impact Report	Archaeological, Evaluation, Field Study, Other Research	Anonymous (Westec Services, Inc.)	1983	Outside
LA-11005	Westside Subway Extension Historic Property Survey Report and Cultural Resources Technical Report	Other Research	Unknown, Mr./Mrs. (Cogstone)	2010	Outside
LA-11473	Verizon Wireless- CBS Inc IBR, 7800 Beverly Boulevard, Los Angeles, CA	Other Research	Hollins, Jeremy (URS)	2011	Outside
LA-11642	Westside Subway Extension Project, Historic Properties and Archaeological Resources Supplemental Survey Technical Reports	Archaeological, Field Study, Other Research	Daly, Pam and Sikes, Nancy (Cogstone)	2012	Outside
LA-11732	Natural Scientific Landmark Program National Park Service department of Interior, Rancho La Brea Tar Pits-Hancock Park California	Archaeological, Field Study	Sly, William (LA County Museum of Natural History)	1963	Outside
LA-11747	Programmatic Agreement Compliance Report, twenty-first Reporting Period, July 1, 2005--March 31, 2006	Overview Report	Sakai, Rodney (Historic Resources Group)	2006	N/A
LA-11748	Programmatic Agreement Compliance Report Fifteenth Reporting Period July 1-- December 31, 2002	Overview Report	Sakai, Rodney (SHPO & Advisory Council on Historic Preservation)	2003	N/A

Table 1. Previously Conducted Cultural Resource Studies within 0.5 miles of the Project Site

SCCIC Report Number	Title	Study Type	Author: Affiliation	Year	Relationship to Project Site
LA-11785	Final Environmental Impact Statement/Final Environmental Impact Report for the Westside Subway Extension	Management / Planning	Rogers, Leslie (U.S. Department of Transportation Federal Transit Admin. & LA County Metro Transit Authority)	2012	Outside
LA-12049	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SV11560A (Wilshire Medical RT), 6221 Wilshire Boulevard, Los Angeles, Los Angeles County, California	Archaeological, Architectural / Historical, Evaluation, Field Study	Bonner, Wayne (MBA)	2012	Outside
LA-12160	Cultural resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SV11696A (Cabinet City) 425 South Fairfax Avenue, Los Angeles, Los Angeles County, California	Archaeological, Architectural / Historical, Evaluation, Field Study	Bonner, Wayne and Crawford, Kathleen (MBA)	2012	Outside

Previously Recorded Cultural Resources

The CHRIS records search identified a total of 12 previously documented cultural resources within a 0.8-km (0.5-mile) radius of the project site (Table 2). Seven of the resources are buildings, one is a building and archaeological site (P-19-003945; Gilmore adobe), three are Historic-period archaeological sites (P-19-001261, P-19-002964, and P-19-171007), and one is an archaeological site with Historic- and Prehistoric-period components (P-19-000159; La Brea Tar Pits).

Site P-19-002964 was recorded in 2002 during construction monitoring conducted for the Park La Brea housing development. The site boundary is defined only by the housing tracts' two large discontiguous parcels on the south side of 3rd Street, one of which is in the parcel east of the current project site. The site record describes a diffuse artifact scatters and a brick-lined structure within highly disturbed soils. The dates listed for the assemblage are 1910s and 1930s to 1940s.

Site P-19-000159 is a prehistoric archaeological site consisting of human remains, wooden artifacts, a stone "cog," a mano, shell beads, and various floral and faunal remains, including those of extinct mammals as well as a domesticated dog (unassociated with the human remains). The material was recovered within asphalt seeps of the La Brea Tar Pits. Originally identified in 1914, the human remains recovered from the site are now commonly referred to as those of the La Brea Woman. Since Heizer's first formal recordation of the site in 1949, various studies have been conducted with the purpose of dating the bone, most recently by Fuller et al. (2016). Fuller and his colleagues dated the remains to 9,080 ± 15 radiocarbon years before present (10,200-10,250 calibrated years before present). The age of the remains are generally consistent relative dates based on the shell beads and some of the extinct fauna found in association. A trash pit containing Historic-period archaeological remains were also recovered from an adjacent location in the tar pits and documented as a separate site (P-19-001261). Hancock Park and the La Brea Tar Pits are also individually recorded as a historical place (P-19-171007), the boundary of which overlaps the two archaeological sites previously discussed. All three of these resources are located between 0.6 and 0.9 km (0.4 and 0.6 miles) to the southeast of the project site.

Table 2. Previously Recorded Resources Within 0.5 Mile of the Project Site

Primary No.	Trinomial	Name(s) or Designations	Time Period	Resource Type	Description	Recording Year (Name, Affiliation)	Relationship to Project Site
P-19-000159	CA-LAN-000159/H	La Brea Tar Pits	Prehistoric, Historic	Site	AH16 (Other); AP09 (Burials); AP16 (Other)	1949 (R.F. Heizer)	Outside
P-19-001261	CA-LAN-001261H	Shen-En-Kan (GtJ)	Historic	Site	AH04 (Privies / dumps / trash scatters); AH09 (Mines / quarries / tailings)	1986 (Roy Salls, UCLA)	Outside
P-19-002964	CA-LAN-002964H	Park La Brea	Historic	Site	AH04 (Privies/dumps/trash scatters)	2002 (Alice Hale, Greenwood & Associates)	Outside
P-19-003045	CA-LAN-003045H	The Grove at Farmer's Market and the Gilmore Adobe	Historic	Building, Structure, Site	AH04 (Privies / dumps / trash scatters); AH15 (Standing structures)	2002	Outside
P-19-152504	--	Haig M Prince; OHP Property Number - 025006	Historic	Building	HP10 (Theater)	1982 (S. Van Wormer, Westec)	Outside
P-19-171007	--	Hancock Park, La Brea Tar Pits; OHP Property Number - 024999; CHL 170	Historic	Site	AP16 (Other); HP31 (Urban open space)	1982 (T. Jaques & N. Michali, Westec Services)	Outside
P-19-173051	--	May Company Wilshire / Los Angeles County Museum of Art West; OHP Property Number - 027080	Historic	Building	HP07 (3+ story commercial building); HP15 (Educational building)	1982 (Jacques, Terri, Westec Services); 2010; 2011 (Pamela Daly, Cogstone)	Outside
P-19-175263	--	Hancock Park School; OHP Property Number - 097774	Historic	Building	HP15 (Educational building)	1995 (C. McAvoy, HRG)	Outside
P-19-187466	--	Erica Courtney; OHP Property Number - 156589	Historic	Building	HP03 (Multiple family property); HP07 (3+ story commercial building)	2004 (C. Taniguchi, MBA); 2011 (K.A. Crawford, Crawford Historic Services)	Outside
P-19-188461	--	Cabinet City	Historic	Building	HP06 (1-3 story commercial building)	2009 (Crawford, K. A., Michael Brandman Associates)	Outside
P-19-189263	--	Johnie's Coffe Shop Restaurant	Historic	Building	HP06 (1-3 story commercial building)	2010	Outside
P-19-190068	--	Wilshire Medical Center Building	Historic	Building	HP07 (3+ story commercial building)	2007 (K. Crawford, Crawford Historic Services); 2012 (K. A. Crawford, Crawford Historic Services)	Outside

Archival Research

SWCA's archival research included a review of historical maps for the project site and vicinity and focused on documenting modifications to the physical setting and identifying any potential natural or artificial features with relevance to use by Native Americans (e.g., stream courses, vegetation, historical topography, roads, habitation markers) or use of the location by non–Native American people in the Historic period. One important landmark was the *brea* ("tar") pits, now known as the La Brea Tar Pits, located 1.6 km (1.0 mile) south of the project site. Asphaltum—the naturally formed substance found in seeps—was an important resource to Native American populations, who used it as a binding and waterproofing element. The asphaltum at the La Brea Tar Pits would have been accessed via footpaths from neighboring camp and village sites, including Yaanga and Geveronga, located east of the project site. Though no reliable maps exist showing the precise location of such Native American travel routes, it is likely that many of the routes designated by the Spanish, Mexican, and American inhabitants followed some of the same alignments. The Kirkman-Harriman map (Kirkman 1938) illustrates this pattern of historically significant points connected by travel corridors composed of superimposed paths from multiple time periods. Outside the project site, Kirkman's map depicts a number of pathways including "Camino Real" 2.6 miles (4.2 km) to the north—the road connecting the nearby Spanish missions and Los Angeles Pueblo—and two parallel east-west routes –Portolá Expedition and "La Brea Road"—between 0.3 and 0.4 miles (0.5 and 0.6 km) to the south (Kirkman 1938).

Review of a Sanborn Fire Insurance map (Figure 13), newspaper articles, and building permits document the development of the project site as an industrial and commercial block within La Brea and its conversion to its current use as a commercial building and parking lot. Before the 1900s the property was primarily grazing land, but by 1920 topographic maps show the project site heavily developed with oil wells drilling for the Salt Lake Oil Field. By 1926 most of the oil derricks had been removed and some buildings begin to appear on maps. The first Sanborn Fire Insurance maps showing the project site were published in 1926 and show the lot composing the block as undeveloped. The 1943 Sanborn maps show the existence of the Town & County Market taking up the entire block.

NATIVE AMERICAN COORDINATION

Sacred Lands File Search

On July 16, 2018, SWCA received the results of a Sacred Lands File (SLF) search from the NAHC. The NAHC letter indicated negative results. The letter notes that the SLF and CHRIS are not exhaustive inventories of resources that may be present in any given area, and that tribes may uniquely possess information on the presence of an archaeological resource. The NAHC provided a list of 16 Native American contacts and suggested contacting them to provide information on sacred lands that may not be listed in the SLF. Ten of these individuals were already included in the City's notification list, and all additional outreach was conducted as part of compliance with Assembly Bill 52 (PRC Section 21082.3) and is discussed in a separate report. The NAHC letter is included in Appendix B.

SENSITIVITY ASSESSMENT

Archaeological Resources

A CHRIS records search and archival research identified 12 previously recorded resources within a 0.8-km (0.5-mile) radius of the project site. None of the resources were located within the project site or API. Resources identified in the 0.5-mile radius include one Historic-period archaeological site (P-19-002964) documented east of the project site, and three Historic-period and Prehistoric-period archaeological sites (P-19-000159, P-19-001261, and P-19-003945). P-19-000159 includes Native American human remains,

commonly known as the La Brea Woman, recovered in 1915 from asphalt seeps in the La Brea Tar Pits 0.7 km (0.4 miles) to the southeast of the project site. P-19-001261 is a Historic-period refuse pit identified near the prehistoric site in the La Brea Tar Pits. P-19-002964 consists of an early twentieth century refuse scatter and brick foundation feature documented during construction monitoring for the Park La Brea housing development on the south side of 3rd Street between the project site and Hauser Boulevard. P-19-003945 includes the Gilmore adobe and historical assemblage located to the north of the project site and API.

The NAHC's SLF results were negative. The letter notes that the SLF and CHRIS are not exhaustive inventories of resources that may be present in any given area. The nearest named villages to the project site are all located between 9.5 and 12 km (5.9 and 7.5 miles) of the project site. Other unnamed Native American settlements have been documented approximately 4.5 km (2.8 miles) south of the project site along the former course of the Los Angeles River (now Ballona Creek). The La Brea Tar Pits served as an important source of asphaltum for Native Americans dating back at least 10,000 years. Other water features including perennial springs and small wetlands are known to have existed along the southeast-facing toeslopes of the Santa Monica Mountains within approximately 3 to 5 km (1.9 to 3.1 miles) of the project site would have been frequented by Native Americans. Middle and late-twentieth century maps show a relatively small south-flowing stream was once located approximately 300 (984 feet) to the west. The stream appears to have been intermittent or ephemeral and only contained water during the wet season for short periods of time. The proximity to these natural resources, especially the asphaltum source, suggests an increased level of sensitivity for prehistoric archaeological resources above background levels, specifically remains from a temporary open camp identified by the presence of flaked stone tools, tool-making debris, stone milling tools, shell, fire-altered rock, and sediment discoloration or carbonization.

Archival research documents the land-use history of the project site and its transitions from use in livestock grazing in the middle nineteenth century, to industrial properties in the 1890s, and primarily commercial uses by the 1940s. As part of James Thompson's leased ranch land, the project site appears to have been used primarily for livestock grazing, most likely sheep, but potentially cattle as well. Maps created in 1870 and 1880 map show a south-flowing stream located approximately 300 m (984 feet) west of the project site. Any artifacts or features associated Native American activities that may have been present on the surface within the project site and API would have likely been disturbed but may have remained in place or been buried.

The record of industrial uses on the project site originated in 1890s with the discovery of the Salt Lake Oil Field and development under ownership of Arthur Gilmore. Aerial photographs and maps from 1919–1928 show that at least one oil well, three storage tanks, and various associated structures were located within the API. The Gilmore Oil fields operation remained in this location through most of the early twentieth century, and although they continued to own the land until the 1940s, oil operations ended in the 1920s. The aerial photographs from the late 1920s also show wide-spread ground disturbances to the project site and API resulting from the oil operation, which included the excavation of the wells and storage tanks and extensive grading for creation of the structures and vehicle travel. In the early 1940s the oil wells were abandoned, and the project site cleared for the construction of the Town & Country Market commercial complex and associated parking lots. At this point any prehistoric archaeological material on the surface or shallowly buried is likely to have been severely disturbed or destroyed, leaving only the possibility for deeply buried deposits. However, refuse and other remains from the operation of the oil field and possibly from the earlier ranching operation are likely to occur as Historic-period archaeological deposits within the API. The physical integrity of any such Historic-period archaeological resources is also likely to have been disturbed, but more substantial features and associated items may remain intact below the surface. This is further suggested by the presence of similar resources recovered during construction monitoring in Park La Brea housing development east of the project site and API.

Geotechnical boring identified 1.5 m (5.0 feet) of fill described as loose silty sand atop natural alluvial sediments extending to at least a depth of 30.6 m (100.5 feet). Prehistoric archaeological resources can occur in artificial fill or other "disturbed" (i.e., non-native) soils, though intact deposits more likely to retain their significance when they are recovered from native soils. Generally, depositional environmental composed of alluvial sediments are favorable for the preservation of archaeological material, but small-scale variations in erosional patterns and historical disturbances must be considered when determining the archaeological sensitivity.

It is possible that deeply buried prehistoric archaeological resources can occur within the alluvial sediments identified below the artificial fill. Given the increased level of sensitivity based on proximity to an important asphaltum source and Prehistoric-period site with human remains at the La Brea Tar Pits, SWCA finds the project site and API has a moderate sensitivity for containing Prehistoric-period or Historic-period Native American archaeological resources.

Historic-period archaeological resources could be preserved below the current ground surface, especially within the artificial fill. Specifically, there is potential to encounter structural remains, features, and artifacts associated with the industrial use of the project site beginning in the 1890s. For these reasons, SWCA finds the project site and API has a moderate sensitivity for containing Historic-period (non-Native American) archaeological resources.

CONCLUSION

Archaeological Resources

No previously recorded archaeological resources have been identified within the project site and API. The depth of excavation for the project is approximately 30 feet below the surface within the API, which would require excavation of the underlying alluvial sediments and removal of the overlying artificial fill. The potential for unidentified archaeological resources within the API is found to be moderate. Specifically, there is potential to encounter structural remains, features, and artifacts associated with the Historic-period industrial use of the project site beginning in the 1890s, and prehistoric artifacts or features associated with a temporary camp deeply buried within native alluvial soils below or (less likely) intermixed with artificial fill or otherwise recently disturbed sediments. Prehistoric artifacts and features include flaked stone tools, tool-making debris, stone milling tools, shell, sediment discoloration or carbonization, and depressions or other features indicative of a former living surface. If present, the archaeological resource could be used to answer important research questions, would be considered eligible for listing in the CRHR under Criterion 4, and therefore meet the qualifications of a historical resource or unique archaeological resource under CEQA.

Construction at the project site would adhere to applicable regulatory compliance measures intended to reduce and avoid creating significant impacts to archeological resources in the event of a discovery during grading, excavation, or other soil disturbing activities within the API. As noted above, certain soils within the API have moderate sensitivity based on reviewed databases. Accordingly, to ensure that potential impacts to archeological resources that may be present in the API are clearly less than significant, SWCA recommends the mitigation measures outlined below. The mitigation measures have been developed in accordance with, and incorporate the performance standards of the Secretary of the Interior's Standards for professional archaeology, Public Resources Code Section 5024.1, Title 14 California Code of Regulations, Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1, Office of Historic Preservation's *Archaeological Resource Management Reports (ARMR): Recommended Contents and Format*, and the guidelines of the City of Los Angeles General Plan Conservation Element. At the discretion of the project proponent, the mitigation measures for archaeological resource may be implemented in concert with those measures established for paleontological or tribal cultural resources including, but not

limited to, preparation of a monitoring program, worker training, monitoring, and reporting. These measures will reduce impacts to archaeological resources to a less-than-significant level.

- **MM Arch-1: Retain a Qualified Archaeologist.** Prior to the issuance of a demolition permit, the project proponent shall retain a qualified archaeologist, defined as an archaeologist who meets the Secretary of the Interior's (SOI) Standards for professional archaeology, during the excavation phase to carry out and ensure proper implementation of the mitigation measures related to archaeological resources. The qualified archaeologist shall submit a letter of retention to the project proponent and City of Los Angeles Department of City Planning (DCP) no fewer than 15 days before demolition or excavation activities commence. The letter shall include a resume for the qualified archaeologist that demonstrates fulfillment of the SOI standards.

- **MM Arch-2: Prepare an Archaeological Resources Monitoring and Mitigation Program (ARMMP).** Prior to the commencement of demolition and excavation, an ARMMP shall be prepared. The ARMMP shall include, but not be limited to, a construction worker training program (described in MM Arch-3), monitoring protocol for demolition and excavation activities, discovery and processing protocol for inadvertent discoveries of archaeological resources, and identification of a curation facility should artifacts be collected. The ARMMP shall identify areas that require monitoring (i.e., API), provide a framework for assessing the geoarchaeological setting to determine whether sediments capable of preserving archaeological remains are present, and include a protocol for identifying the conditions under which additional or reduced levels of monitoring (e.g., spot-checking) may be appropriate. The duration and timing of the monitoring shall be determined based on the rate of excavation, geoarchaeological assessment, and, if present, the quantity, type, and spatial distribution of archaeological resources identified. The ARMMP shall also summarize the requirements for tribal coordination in the event of an inadvertent discovery of Native American archaeological resources, including the applicable regulatory compliance measures or conditions of approval for the inadvertent discovery of tribal cultural resources to be carried out in concert. The ARMMP shall be prepared in compliance with Public Resources Code Section 5024.1, Title 14 California Code of Regulations, Section 15064.5 of the CEQA Guidelines, and PRC Sections 21083.2 and 21084.1.
- **MM Arch-3: Worker Environmental Awareness Program (WEAP) Training.** Before the commencement of initial demolition or excavation at the project site, the retained qualified archaeologist or their designee shall provide a WEAP training to on-site project personnel responsible for supervising demolition and excavation (i.e., foreman or supervisor) and machine operators. The WEAP training shall brief construction crews regarding the regulatory compliance requirements and applicable mitigation measures that must be adhered to during demolition and excavation activities for the protection of archaeological resources. As an element of the WEAP training, the qualified archaeologist or their designee shall advise the construction crews on proper procedures to follow if an unanticipated archaeological resource is discovered during construction. The qualified archaeologist or their designee shall also provide the construction workers with contact information for the qualified archaeologist and their designee(s) and protocols to follow if inadvertent discoveries are made. In addition, workers shall be shown examples of the types of archaeological resources that would require notification of the archaeologist, if encountered. Once the ground disturbances have commenced, the need for additional or supplemental WEAP training shall be determined through consultation with the qualified archaeologist, project proponent or their designated project supervisor. Within 5 days of completing a WEAP training, a list of those in attendance shall be provided by the qualified archaeologist to the project proponent.
- **MM Arch-4: Monitor for Archaeological Resources.** Before the commencement of demolition or excavation activities, an archaeological monitor shall be present during ground disturbing activities as stipulated in the ARMMP. The qualified archaeologist may designate an archaeologist

to conduct the monitoring under their direction. The monitor shall have the authority to temporarily halt or redirect construction activities in soils that are likely to contain potentially significant archaeological resources, as determined by the qualified archaeologist. The monitor shall complete a daily log documenting construction activities and observations. The field observations shall include assessment of the geoarchaeological setting and whether sediments are identified that are no longer capable or unlikely to contain archaeological material (i.e., sterile), which may be encountered prior to reaching the total depth of excavation expected for the project. If initial archaeological monitoring identifies low archaeological sensitivity (i.e., sterile soil strata) below a certain depth or within a certain portion of the API, a corresponding reduction of monitoring coverage would be appropriate. In the event that potentially significant archaeological resources are exposed during construction, work in the immediate vicinity of the find (within 8 meters [25 feet]) shall stop until a qualified archaeologist can evaluate the significance of the find. Construction activities may continue in other areas in coordination with the qualified archaeologist. If the discovery is determined by the qualified archaeologist to constitute a "historical resource" pursuant to CEQA Guidelines Section 15064.5(a) or a "unique archaeological resource" pursuant to PRC 21083.2(g), the qualified archaeologist shall coordinate with the project proponent and DCP to develop a formal treatment plan that would reduce impacts to the resource(s). The treatment plan established for the resource(s) shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources and Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment and if it is determined avoidance is not feasible, treatment may include archaeological data recovery (i.e., excavation, laboratory processing and analysis) to remove the resource(s) and reduce potential impacts to less than significant.

Within 14 days of concluding the archaeological monitoring, the qualified archaeologist shall prepare a memo stating that the archaeological monitoring requirement of the mitigation measure have been fulfilled and summarize the results of any archaeological finds. The memo shall be submitted to the project proponent and DCP. Following submittal of the memo, the qualified archaeologist shall prepare a technical report documenting the methods and results of all work completed under the ARMMP, including, if any, treatment of archaeological materials, results of artifact processing, analysis, and research, and evaluation of the resource(s) for the California Register of Historical Resources. Once laboratory analysis is complete, any recovered archaeological materials shall be curated at a public, non-profit research institution that will ensure their long-term preservation and allow access to interested scholars. Should no such institutions accept the materials, they shall be donated to an educational institution or historical society. The format and content of the report shall follow the California Office of Historic Preservation's *Archaeological Resource Management Reports (ARMR): Recommended Contents and Format*. Any archaeological resources identified shall be documented on appropriate California Department of Parks and Recreation 523-Series Forms. The report shall be prepared under the supervision of a qualified archaeologist and submitted to DCP within 120 days of completion of the monitoring. The final draft of the report shall be submitted to the South Central Coastal Information Center.

REFERENCES CITED

Altschul, Jeffrey H., John G. Douglass, Richard Ciolek-Torrello, Sarah Van Galder, Benjamin R. Vargas, Kathleen L. Hull, Donn R. Grenda, Jeffrey Homburg, Manuel Palacios-Fest, Steven Shelley, Angela Keller, and David Maxwell

2007 Life at the Nexus of the Wetlands and Coastal Prairie, West Los Angeles. *Proceedings of the Society for California Archaeology* 20:34–42.

Ashby, G. E., and J. W. Winterbourne

1966 A Study of Primitive Man in Orange County and Some of Its Coastal Areas. *Pacific Coast Archaeological Society Quarterly* 2(1):5–52.

Bancroft, Hubert Howe

1886 *History of California, Volume 1, 1542-1800*. The History Company Publishers, San Francisco, California.

Bean, Lowell J., and Charles R. Smith

1978 Gabrielino. In *California*, edited by Robert F. Heizer, pp. 538–549. Handbook of North American Indians, Vol. 8, William C. Sturtevant, general editor, Smithsonian Institution Press, Washington, DC.

Beattie, George William

1942 Battle of Chino. *The Quarterly: Historical Society of Southern California*. 24(4):143–160.

Bertao, David E., and Eduardo M. Dias

1987 "El Portuguese": Don Antonio Rocha California's First Portuguese Sailor. *California History* 66(3):188–195.

Blackburn, Thomas

1963 *Ethnohistoric Descriptions of Gabrielino Material Culture.* Annual Report, Archaeological Survey. University of California, Los Angeles.

Brooks, Sheilagh, Richard A. Brooks, G. E. Kennedy, J. Austin, James R. Firby, Louis A. Payen, Peter J. Slota, Jr., Christine A. Prior, and R. E. Taylor

1990 The Haverty Human Skeletons: Morphological, Depositional, and Geochronological Characteristics. *Journal of California and Great Basin Anthropology* 12(1):60–83.

Byrd, Brian F., and L. Mark Raab

2007 Prehistory of the Southern Bight: Models for a New Millennium. In *California Prehistory*, edited by Terry L. Jones and Kathryn A. Klar, pp. 215–228. Altimira Press, Lanham, Maryland.

Caughey, John, and LaRee Caughey

1977 *Los Angeles, Biography of a City.* University of California Press, Berkeley and Los Angeles.

City of Los Angeles

2001 *Conservation Element of the City of Los Angeles General Plan.* City Plan Case No. 2001-0413-GPA, Council File No. 01-1094.

Cleland, Robert Glass

1941 *The Cattle on a Thousand Hills: Southern California, 1850-80*. The Huntington Library, San Marino, California.

Cleland, James H., Andrew L. York, and Lorraine M. Willey

2007 *Piecing Together the Prehistory of Landing Hill: A Place Remembered.* EDAW Cultural Publications No. 3. EDAW, Inc., San Diego, California.

Dakin, Susanna Bryant

1978 *A Scotch Paisano in Old Los Angeles: Hugo Reid's Life in California, 1832-1852 Derived from His Correspondence*. Originally published 1939. University of California Press, Berkeley, Los Angeles, and London, United Kingdom.

Dillon, Brian D.

2002 California Paleo-Indians: Lack of Evidence, or Evidence of a Lack? In *Essays in California Archaeology: A Memorial to Franklin Fenenga*, edited by William J. Wallace and Francis A. Riddell, pp. 110–128. Contributions of the University of California Archaeological Research Facility, No. 60, Berkeley.

Drover, Christopher E.

1971 Three Fired-Clay Figurines from 4-Ora-64, Orange County, California. *Pacific Coast Archaeological Society Quarterly* 7(4):73–86.

1975 Early Ceramics from Southern California. *The Journal of California Anthropology* 2(1):101–107.

Dumke, Glenn S.

1944 *The Boom of the Eighties in Southern California.* Huntington Library Publications, San Marino, California.

Engelhardt, Zephyrin

1927 *San Gabriel Mission and the Beginning of Los Angeles*. Mission San Gabriel, San Gabriel, California.

Erlandson, Jon M.

1991 Early Maritime Adaptations on the Northern Channel Islands. In *Hunter-Gatherers of Early Holocene Coastal California*, edited by J. M. Erlandson and R. Colten, pp. 101–112. Perspectives in California Archaeology, Vol. 1. Institute of Archaeology, University of California, Los Angeles.

Erlandson, Jon M., Torben C. Rick, Terry L. Jones, and Judith F. Porcasi

2007 One if by Land, Two if by Sea: Who Were the First Californians? In *California Prehistory: Colonization, Culture, and Complexity,* edited by Terry L. Jones and Kathryn A. Klar, pp. 53–62. Altamira Press, Lanham, Maryland.

Fuller, B. T., J. R. Southon, S. M. Fahrni, J. M. Harris, A. B. Farrell, G. T. Takeuchi, O. Nehlich, M. P. Richards, E. J. Guiry, and R. E. Taylor

2016 Tar Trap: No Evidence of Domestic Dog Burial with "La Brea Woman". *PaleoAmerica* 2(1):56–59.

Geocon West, Inc.

2018 *Geotechnical Investigation, Proposed Mixed-Use Development, The Southeast Corner of 3rd Street and Fairfax Avenue Los Angeles, California.* Report prepared for Holland Acquisition Co, LLC. Project No. A9713-06-01.

Glassow, Michael A., L. Wilcoxon, and J. M. Erlandson

1988 Cultural and Environmental Change During the Early Period of Santa Barbara Channel Prehistory. In *The Archaeology of Prehistoric Coastlines*, edited by G. Bailey and J. Parkington, pp. 64–77. Cambridge University Press, Cambridge, United Kingdom.

Gumprecht, Blake

2001 *The Los Angeles River: Its Life, Death, and Possible Rebirth*. Johns Hopkins University Press, Baltimore, Maryland.

Guinn, James

1910 History of the Cahuenga Valley and The Rancho La Brea. *Annual Publication of the Historical Society of Southern California* 8(1/2):82–94.

Hamlin, David and Brett Arena

2009 *Los Angeles's Original Farmers Market.* Arcadia Publishing. San Francisco, California.

Harrington, John P.

1942 Culture Element Distributions: XIX Central California Coast. *University of California Anthropological Records* 7(1):1–46.

Heizer, Robert F.

1968 *Village Names in Twelve California Mission Records.* Reports of the University of California Archaeological Survey 74.

Hinckley, James

2012 Gilmore Oil Company. *The Route 66 Encyclopedia*. Voyageur Press, Minneapolis, Minnesota.

Johnson, J. R., T. W. Stafford, Jr., H. O. Ajie, and D. P. Morris

2002 Arlington Springs Revisited. In *Proceedings of the Fifth California Islands Symposium*, edited by D. R. Brown, K. C. Mitchell, and H. W. Chaney, pp. 541–545. Santa Barbara Museum of Natural History, Santa Barbara, California.

Johnston, Bernice E.

1962 *California's Gabrielino Indians.* Frederick Webb Hodge Anniversary Publication Fund 8, Southwest Museum, Los Angeles, California.

Jones, Terry L., Richard T. Fitzgerald, Douglas J. Kennett, Charles Miksicek, John L. Fagan, John Sharp, and Jon M. Erlandson

2002 The Cross Creek Site and Its Implications for New World Colonization. *American Antiquity* 67:213–230.

King, Chester D.

1994 *Native American Placenames in the Santa Monica Mountains National Recreation Area, Agoura Hills*. Topanga Anthropological Consultants, California.

Kirkman, George W.

1938 *Kirkman-Harriman Pictorial and Historical Map of Los Angeles County 1860-1937* [Map]. On file at the Los Angeles Public Library Online Map Collection. Call Number 91.7941 L88Ki.

Koerper, Henry C., and Christopher E. Drover

1983 Chronology Building for Coastal Orange County: The Case from CA-ORA-119-A. *Pacific Coast Archaeological Society Quarterly* 19(2):1–34.

Koerper, Henry C., Roger D. Mason, and Mark L. Peterson

2002 Complexity, Demography, and Change in Late Holocene Orange County. In *Catalysts to Complexity, Late Holocene Societies of the California Coast*, edited by Jon M. Erlandson and Terry L. Jones, pp. 63–81. Perspectives in California Archaeology Vol. 6. Costen Institute of Archaeology, University of California, Los Angeles.

Kroeber, Alfred J.

1925 *Handbook of the Indians of California*. Bulletin 78, Bureau of American Ethnology, Smithsonian Institution. Government Printing Office, Washington, DC. Reprinted 1976 by Dover Publications, Inc., New York.

McCawley, William

1996 *The First Angelinos: The Gabrielino Indians of Los Angeles*. Malki-Ballena Press, Banning, California.

Macko, Michael E.

1998 *The Muddy Canyon Archaeological Project: Results of Phase II Test Excavations and Phase III Data Recovery Excavations at Archaeological Sites within the Crystal Cove Planned Community, Phase IV, Tentative Tract 15447, San Joaquin Hills, Orange County, California*. Report on file, South Central Coastal Information Center, California State University, Fullerton.

Mason, Roger D., and Mark L. Peterson

1994 *Newport Coast Archaeological Project: Newport Coast Settlement Systems–Analysis and Discussion,* Vol. 1, part 1 of 2. Prepared by the Keith Companies. Copies on file at the South Central Coastal Information Center, California State University, Fullerton.

Meighan, Clement W.

1954 A Late Complex in Southern California Prehistory. *Southwestern Journal of Anthropology* 10(2):215–227.

Merriam, Clinton Hart

1955 *Studies of California Indians*. University of California Press. Berkeley, California.

Moratto, M. J.

1984 *California Archaeology*. Academic Press, New York.

Morris, Susan L., John R. Johnson, Steven J. Schwartz, René L. Vellanoweth, Glenn J. Farris, and Sara L. Schwebel

2016 The Nicoleños in Los Angeles: Documenting the Fate of the lone Woman's Community. *Journal of California and Great Basin Anthropology* 36(1):91–118.

Nadeau, Remi

1997 *The Water Seekers.* 4th ed. Revised. Crest Publishers, Santa Barbara, California.

Newmark, Harris

1930 *Sixty Years in Southern California: 1853–1913* (3rd Edition). The Riverside Press Cambridge, Cambridge, Massachusetts.

Newcomb, Rexford

1980 Architectural Observations (1822). In *The Old Plaza Church*, compiled and edited by Francis J. Weber, pp. 66–70. Libra Press Limited, Leicestershire, United Kingdom.

Owen, Thomas J.

1960 The Church by the Plaza: A History of the Pueblo Church of Los Angeles. *The Historical Society of Southern California Quarterly* March:5–28.

Parks, Marion

1929 In Pursuit of Vanished Days: Visits to the Extant Historic Adobe Houses of Los Angeles County. *Annual Publication of the Historical Society of Southern California* 14(2):135–207.

Ríos-Bustamante, Antonio

1992 *Mexican Los Angeles: A Narrative and Pictorial History.* Floricanto Press, Mountain View, California.

Robinson, W. W.

1979 *Land in California: The Story of Mission Lands, Ranchos, Squatters, Mining Claims, Railroad Grants, Land Scrip, Homesteads.* University of California Press, Berkeley.

Rolle, Andrew F.

2003 *California A History.* Revised and expanded 6th Ed. Harlan Davidson, Wheeling, Illinois.

Sanborn Map Company

1950 Insurance Maps of Los Angeles California. Volume 7: Sheets 735, 736. Sanborn Map Company, New York, New York.

Sawyer, William A., and Henry C. Koerper

2006 The San Joaquin Hills Venus: A Ceramic Figurine from CA-ORA-1405-B. In *Contributions from Orange County Presented in Remembrance of John Peabody Harrington*, edited by Henry C. Koerper, pp. 13–34. Coyote Press Archives of California Prehistory No. 53. Coyote Press, Salinas, California.

Seaman, Florence Josephine

1914 A Brief History of Ranch La Brea. *Annual Publication of the Historical Society of Southern California* 9(3): 253–256.

Seebold, Lothar

1875 *Monte Vista County Road leading from Los Angeles City to the settlement in Rancho Rodeo de las Aguas* [Map]. Los Angeles County Assessor's Road Maps Collection. Unique Digital Identifier 307010.

Seims, Charles and Alan Darr

2014 *Roar with Gilmore: The Story of America's Most Unusual Oil Company*. Planet Ink.

Southwest Museum

1962 The Gabrielino Indians at the Time of the Portola Expedition. [Map] Los Angeles Public Library Online Map Collection. Call Number R 91.7941 L88Los.

Tang, Bai "Tom", and Michael Hogan

2013 Final Report on Archaeological Monitoring of Earth-Moving Activities: University High School Gymnasium/Locker Facility Seismic Mitigation Increment 2, and Related Site work. Prepared for Los Angeles Unified School District and Alfa 26 Construction. Prepared by CRM Tech. Report on file at South Central Coastal Information Center.

True, Delbert L.

1993 Bedrock Milling Elements as Indicators of Subsistence and Settlement Patterns in Northern San Diego County, California. *Pacific Coast Archaeological Society Quarterly* 29(2):1–26.

Wallace, W. J.

1955 A Suggested Chronology for Southern California Coastal Archaeology. *Southwestern Journal of Anthropology* 11(3):214–230.

1978 Post-Pleistocene Archaeology, 9000 to 2000 B.C. In *California*, edited by Robert F. Heizer, pp. 25–36. Handbook of North American Indians Vol. 8, William G. Sturtevant, general editor. Smithsonian Institution, Washington, DC.

Warren, Claude N.

1968 Cultural Tradition and Ecological Adaptation on the Southern California Coast. In *Archaic Prehistory in the Western United States*, edited by C. Irwin-Williams. *Eastern New Mexico University Contributions in Anthropology* 1(3):1–14, Portales, New Mexico.

Warren, Claude N., and D. L. True

1961 The San Dieguito Complex and its Place in California Prehistory. *Archaeological Survey Annual Report for 1960-1961*, pp. 246–337. University of California, Los Angeles.

Weber, Francis J.

1980 Nuestra Señora de Los Angeles (1966). In *The Old Plaza Church, A Documentary History*, compiled and edited by Francis J. Weber, pp. 203–211. Libra Press Limited, Hong Kong.

Appendix A.
Report Figures

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Figure 1. Project location within Los Angeles County.

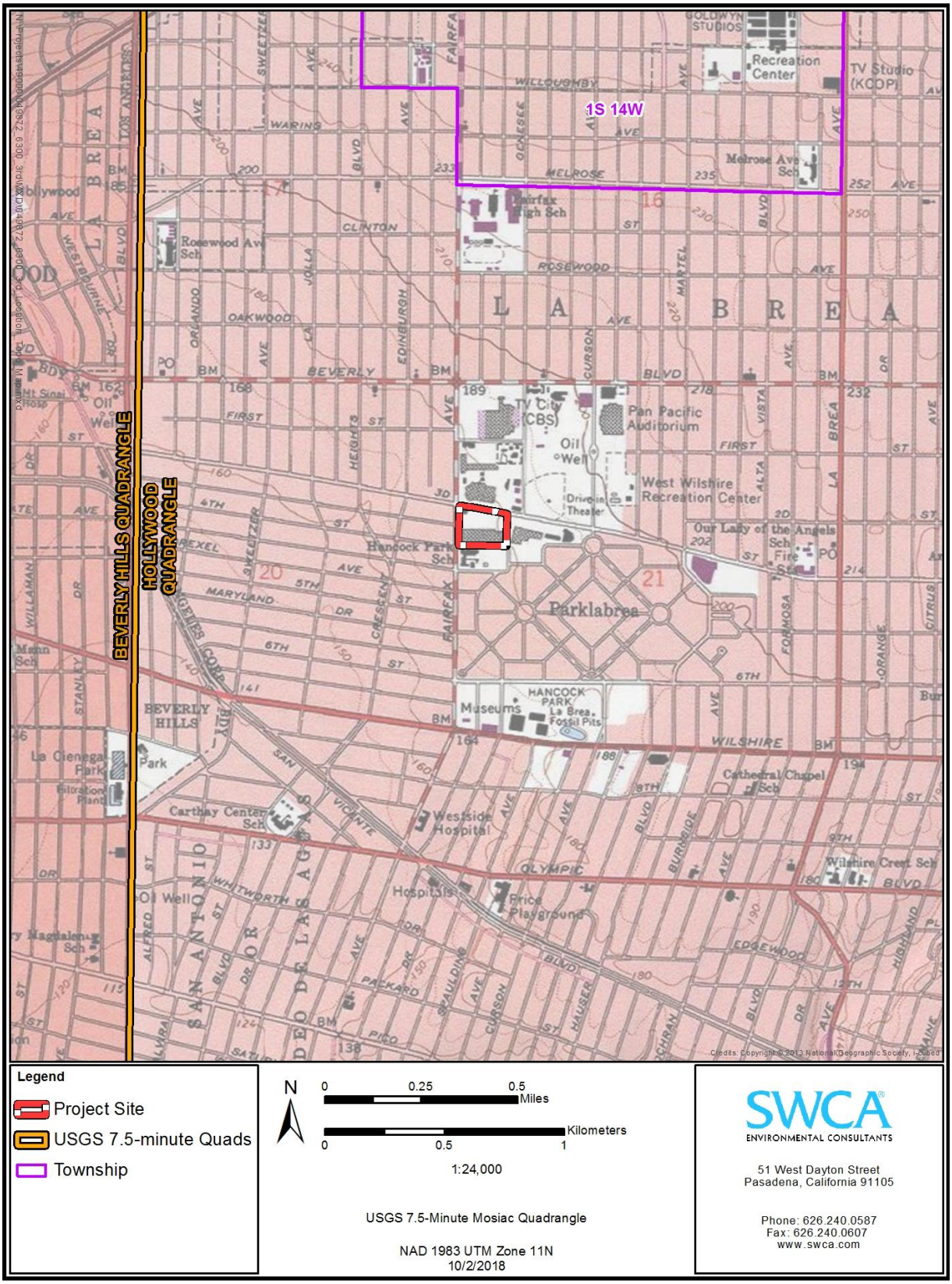

Figure 2. Project site plotted on USGS Hollywood, California, 7.5-minute topographic quadrangle.

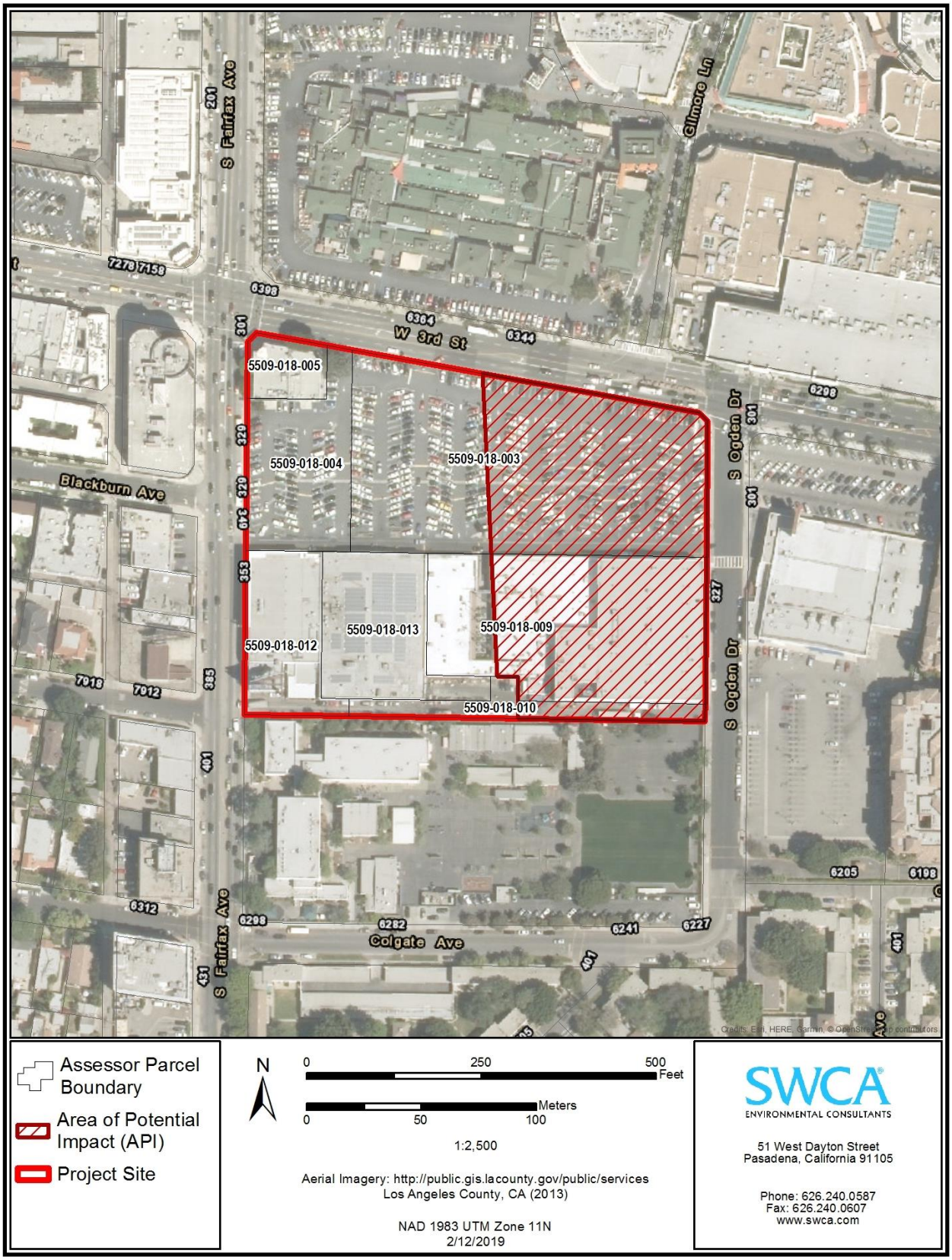

Figure 3. Project site and API (hatched area) with associated parcels on an aerial photograph and street map.

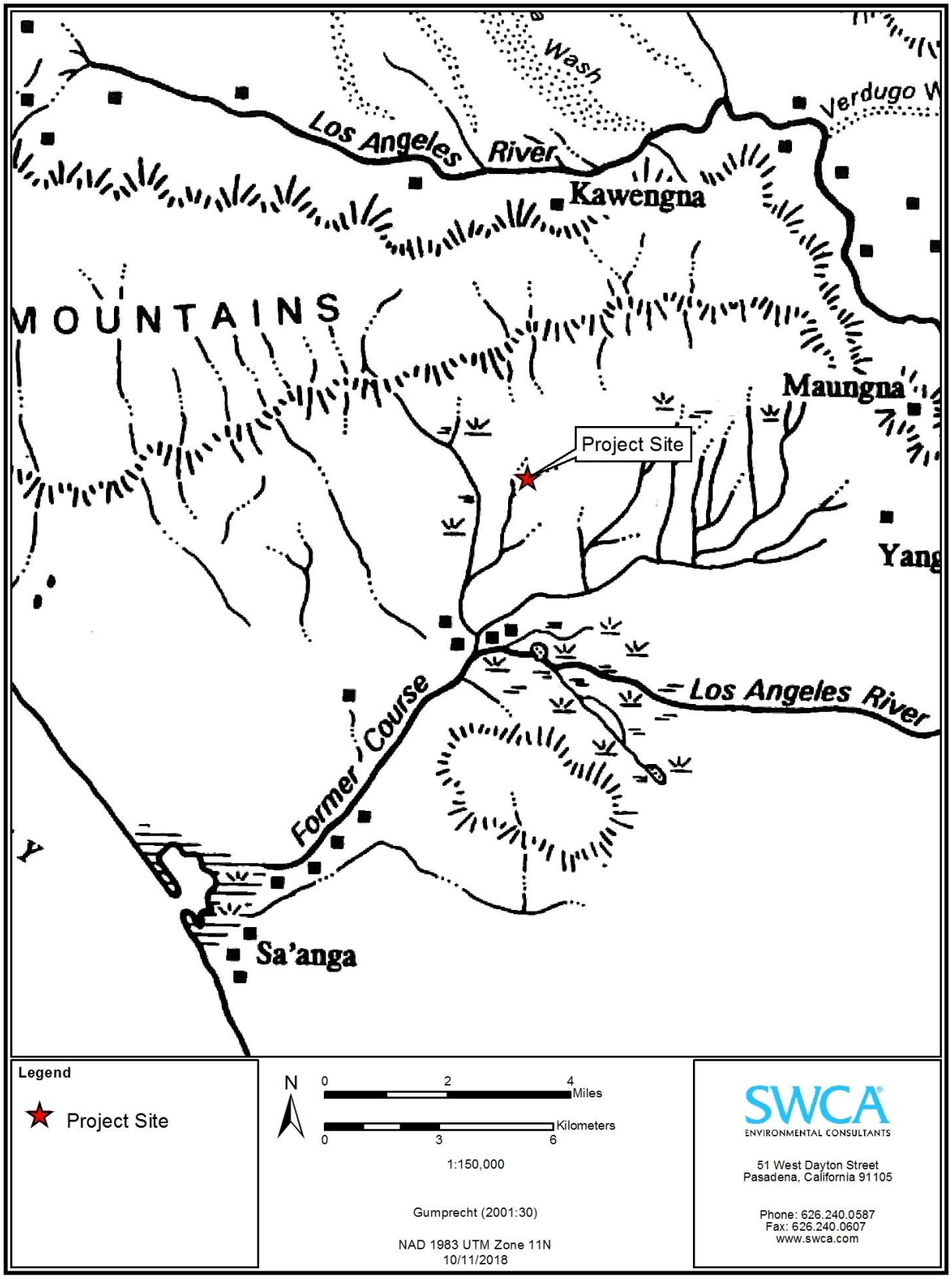

Figure 4. Project site plotted on Gumprecht's (2001:30) map showing hypothetical locations of Native American villages along the Los Angeles River and other waterways in the Los Angeles Basin.

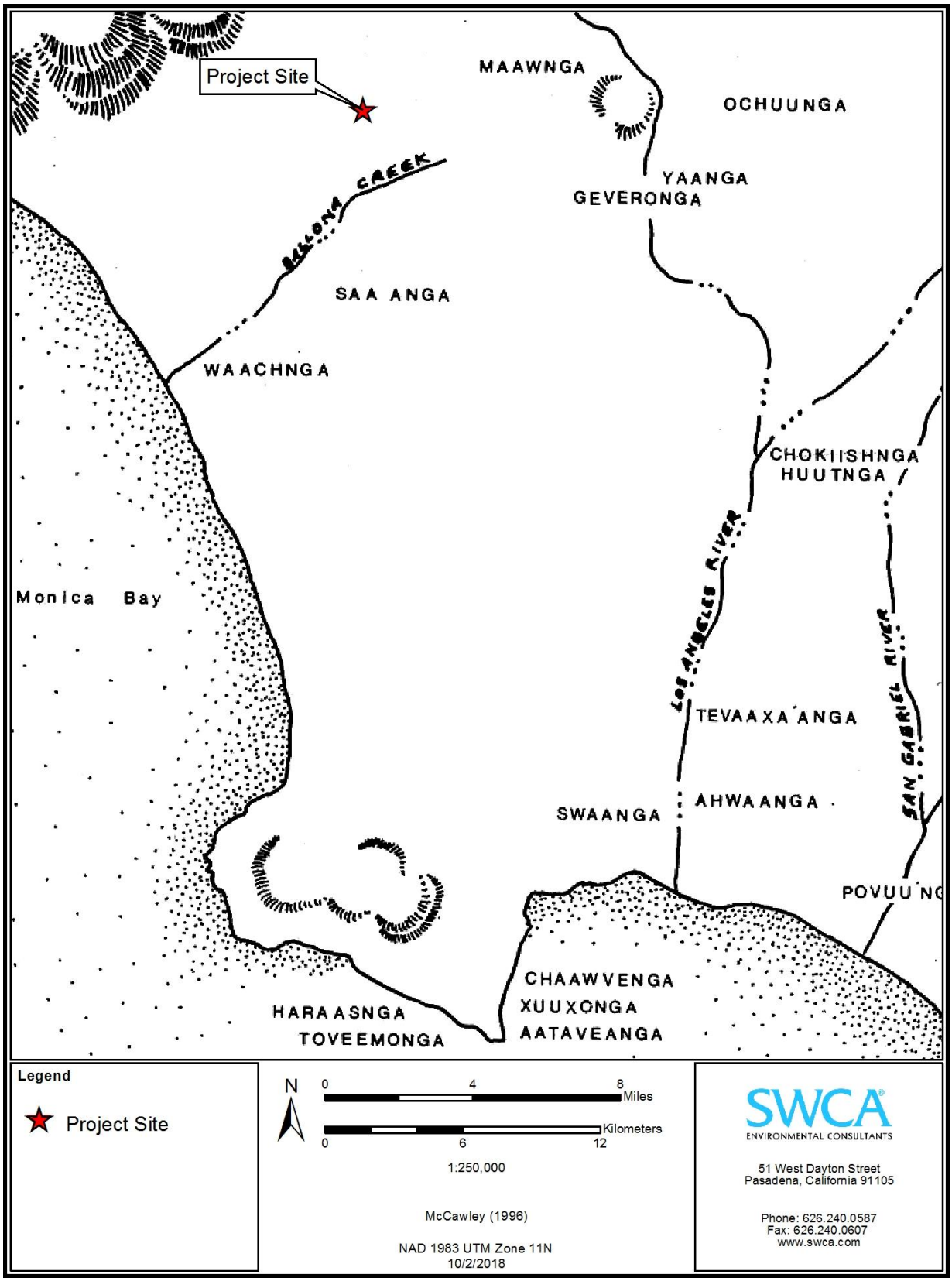

Figure 5. Project site plotted on McCawley's (1996:36) map showing the approximate location of villages cited in Gabrielieno ethnographic sources.

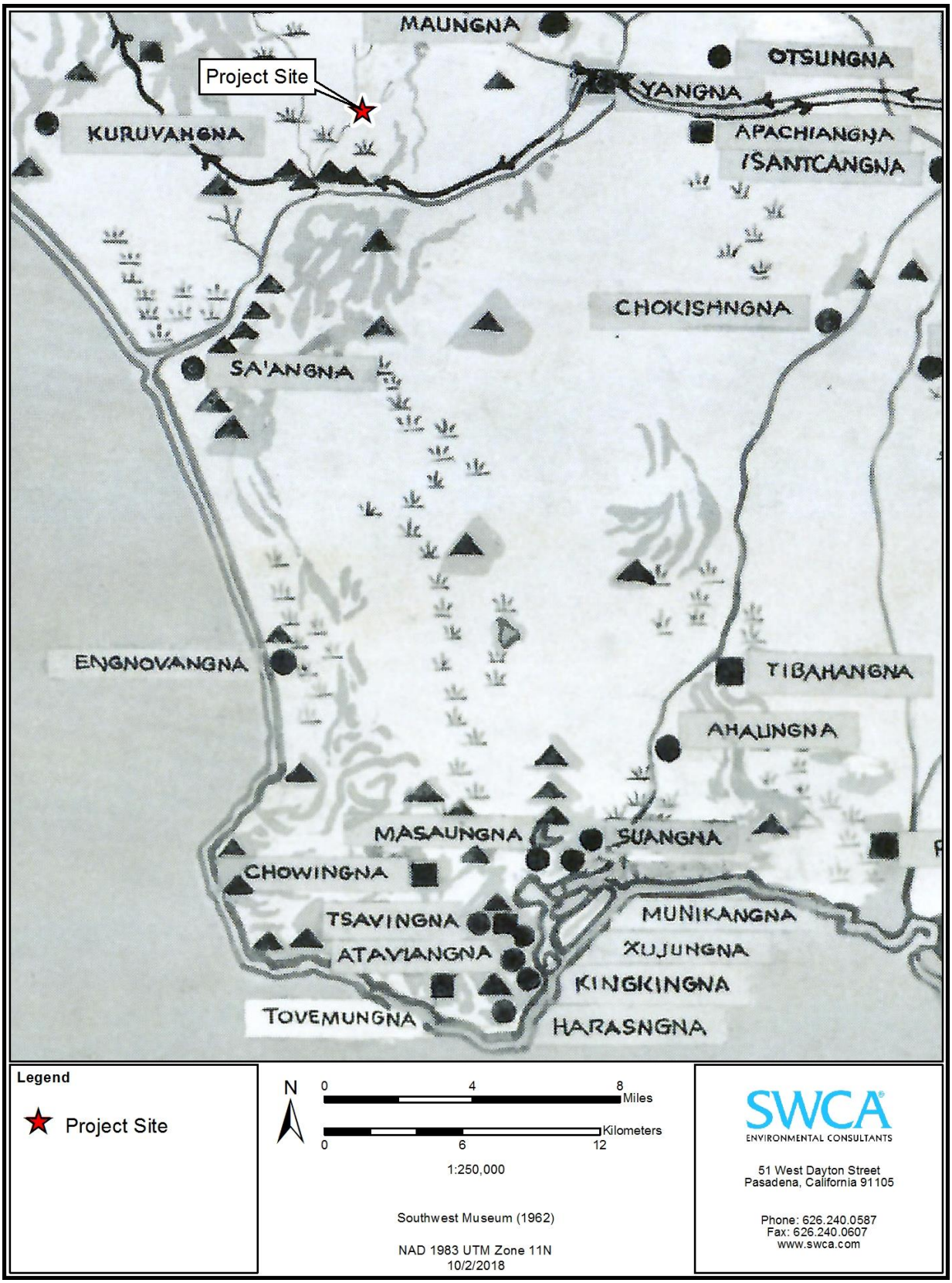

Figure 6. Project site depicted on the 1962 Southwestern Museum maps showing hypothetical locations of Gabrielino Indian Villages**.**



Figure 7. Project site on a ca. 1870 cadastral map.

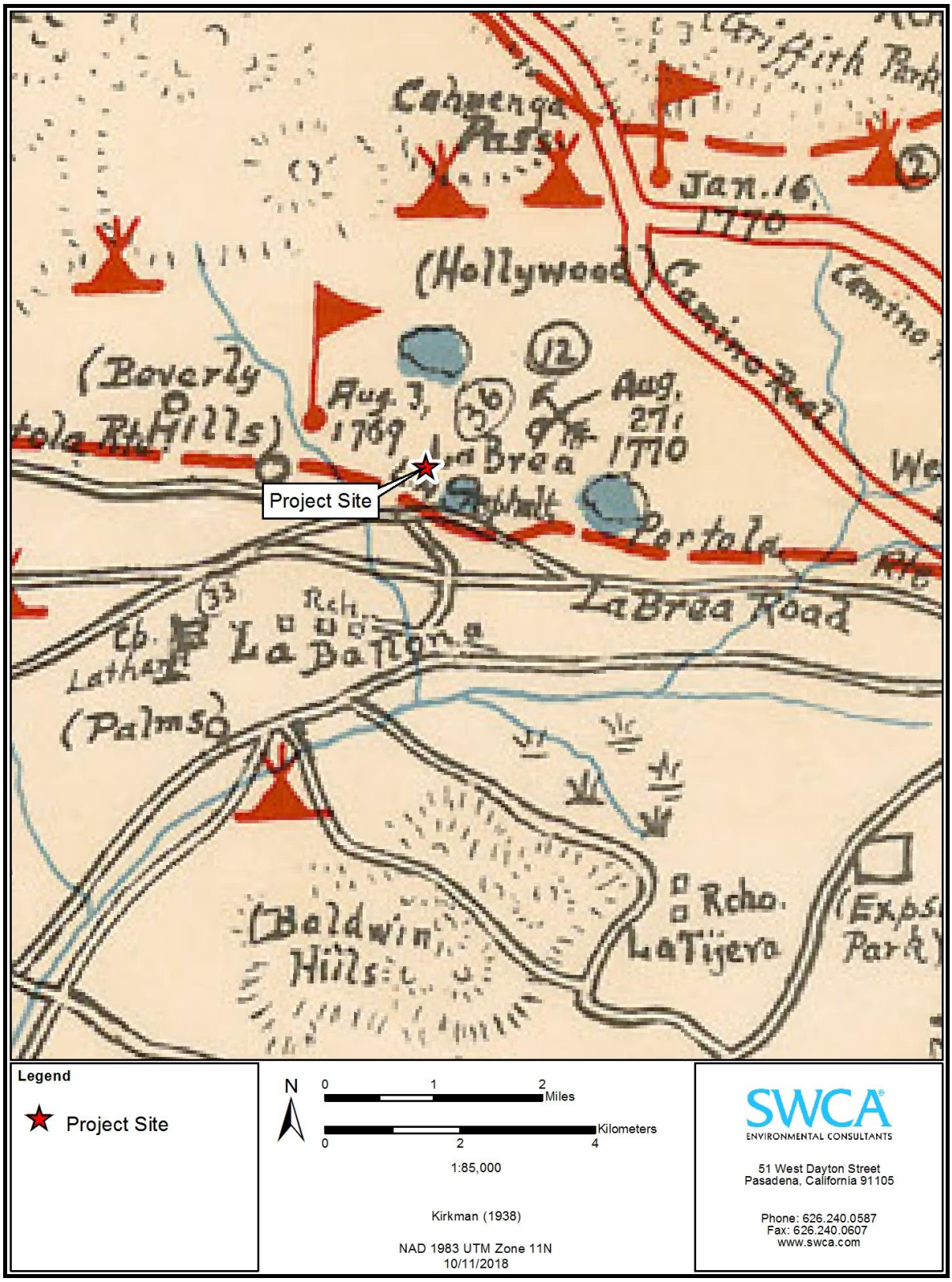

Figure 8. Kirkman-Harriman's pictorial and historical map of Los Angeles County, 1860–1937. Historical sites and features are depicted with symbols to indicate representational rather than explicit geographic locations.

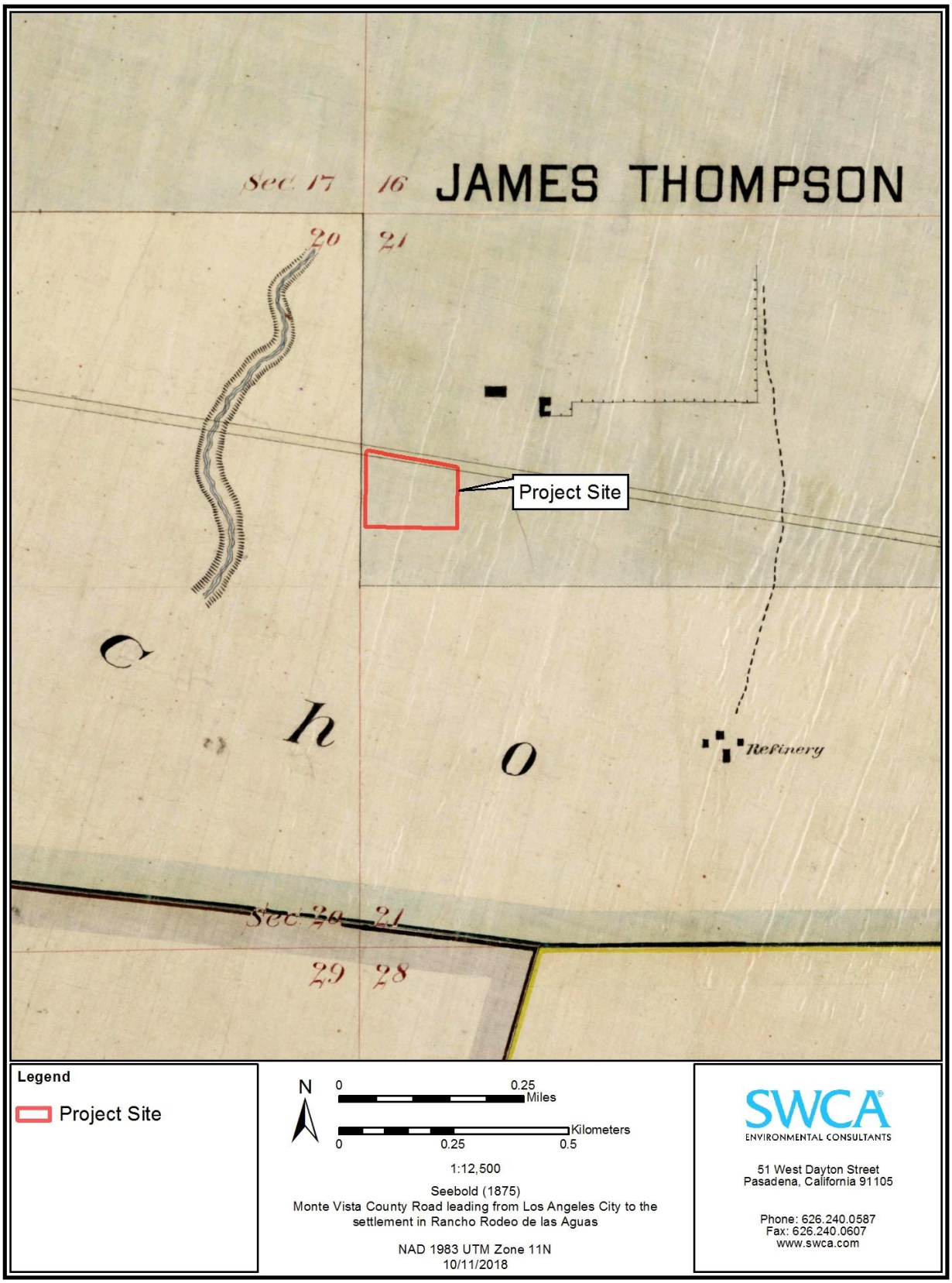

Figure 9. Project site depicted on an 1875 survey map; note the partially drawn segments of local stream courses.

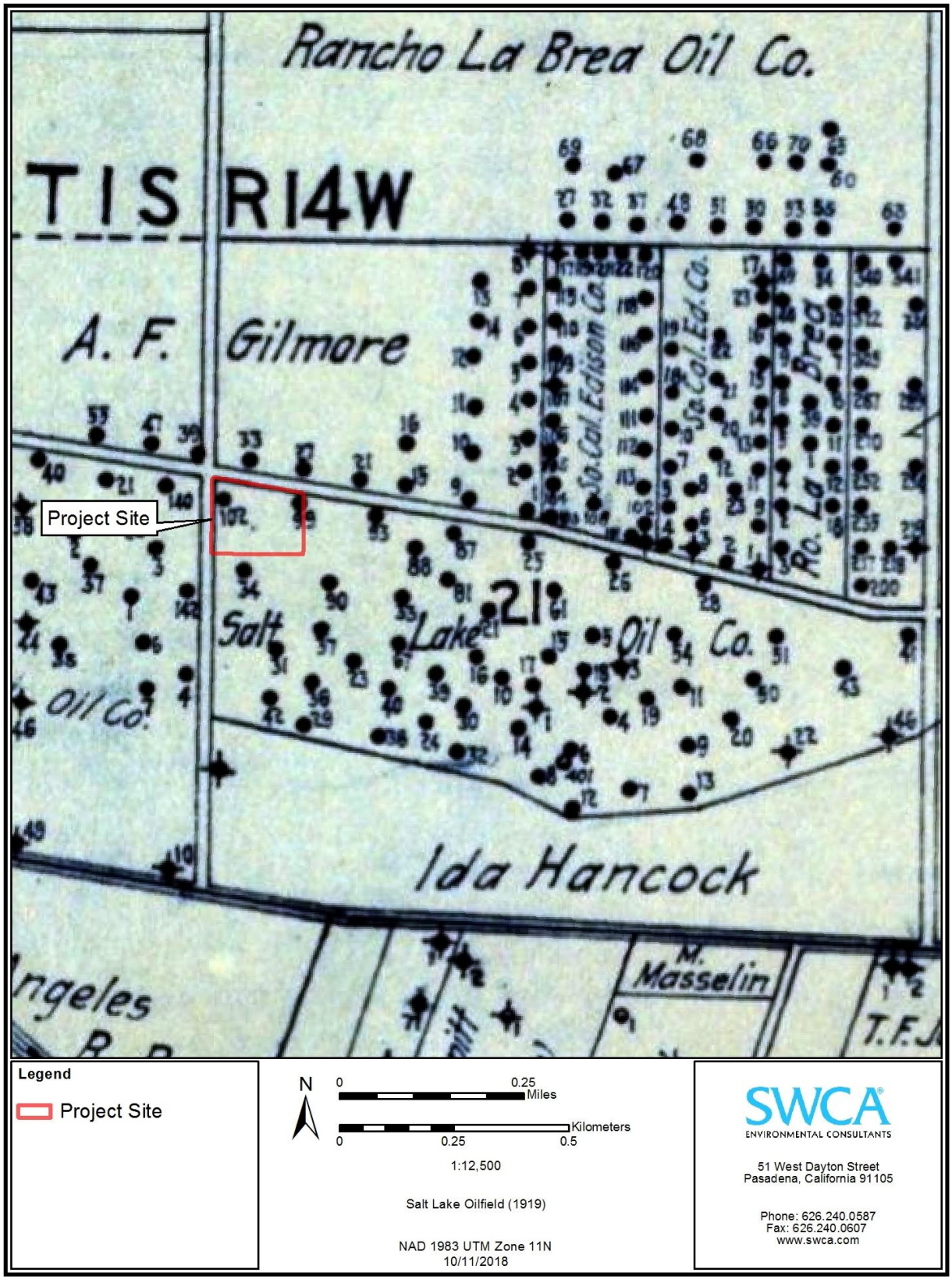

Figure 10. Project site depicted on the 1919 California State Mining Bureau, SMB Department of Petroleum & Gas map of Los Angeles County oil fields.

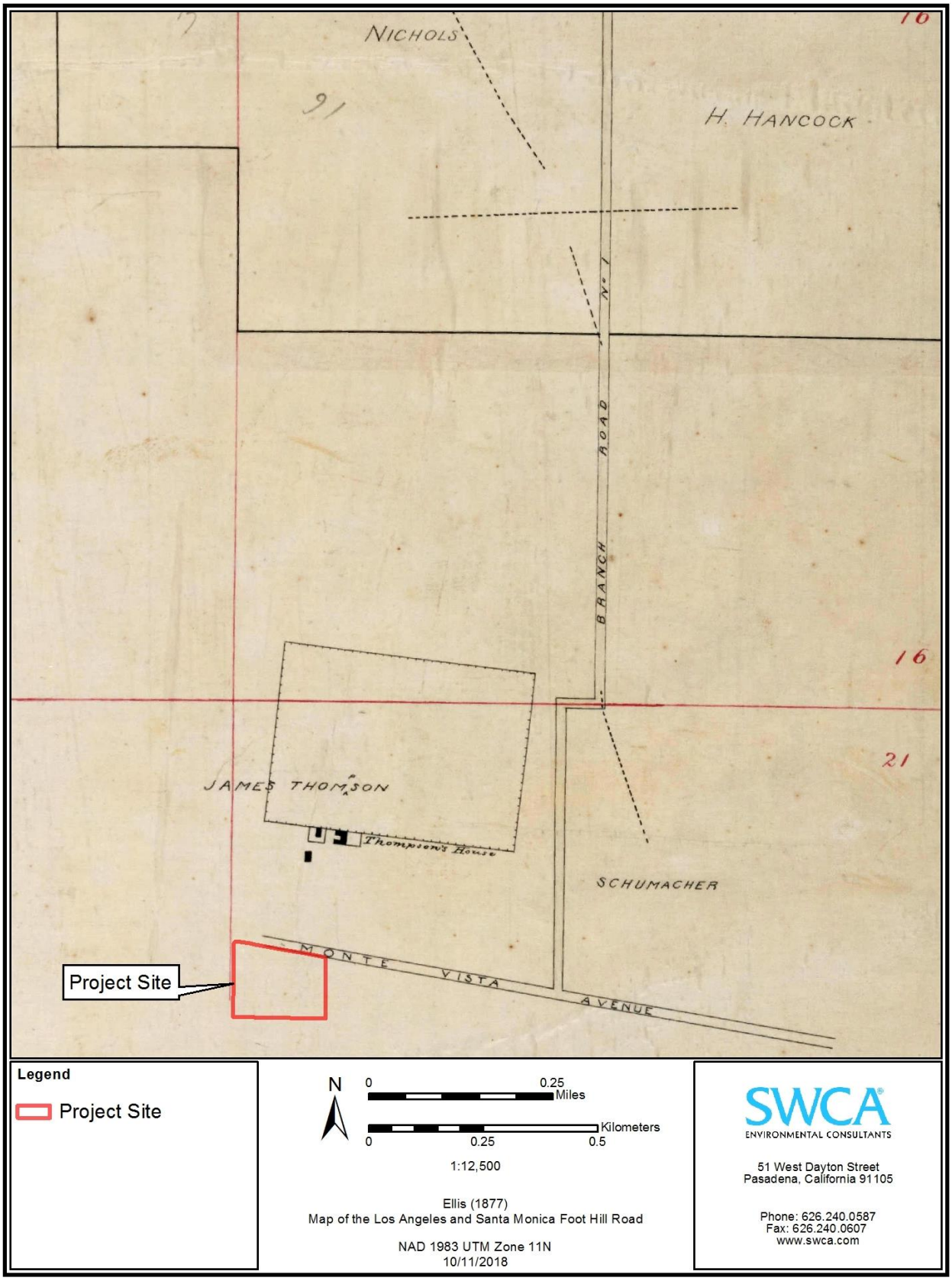

Figure 11. Project site depicted on 1877 map of Los Angeles and Santa Monica Foot Hill Road.



Figure 12. Project site and API (dark red outline) on a 1927 aerial photograph.

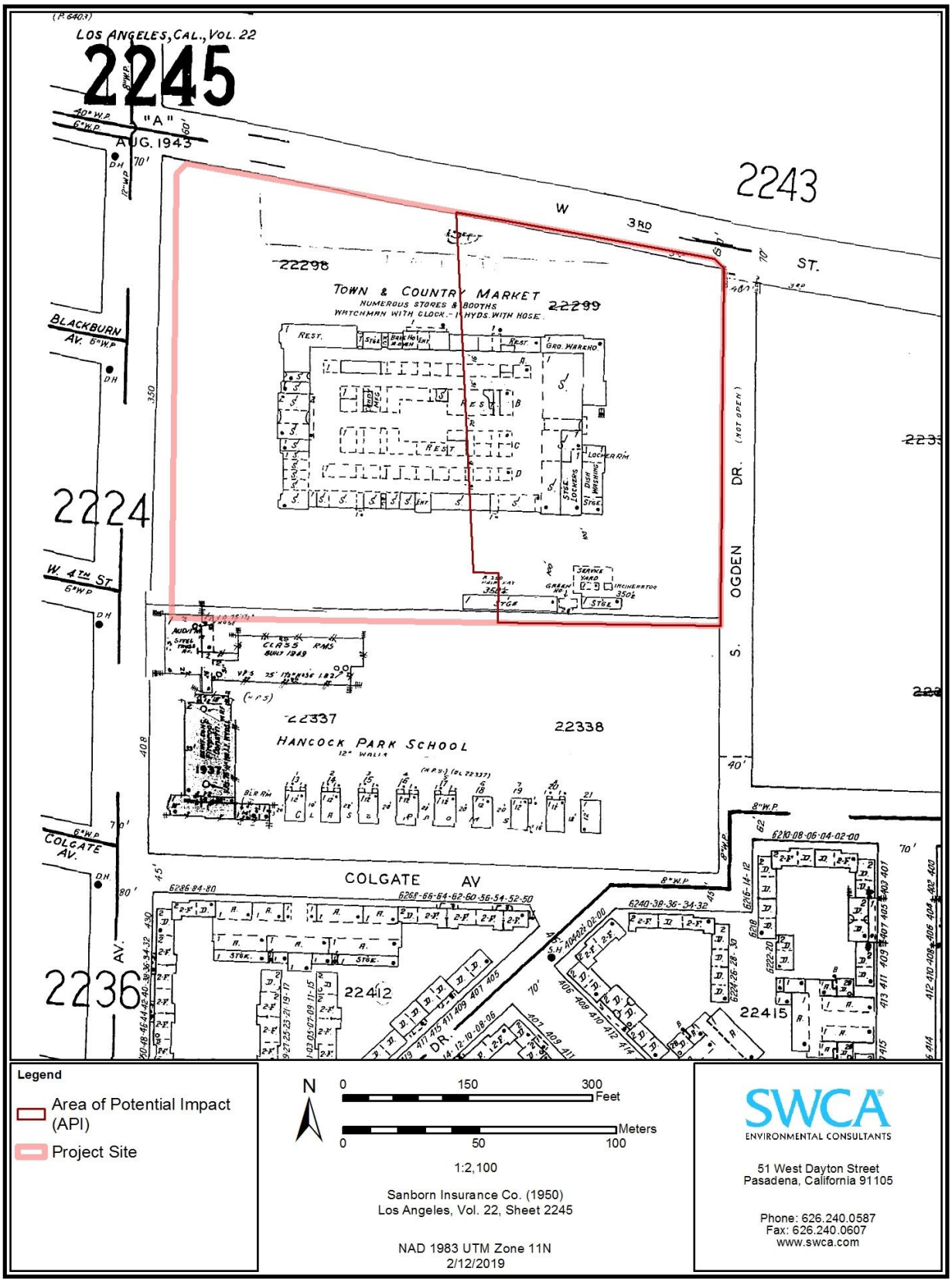

Figure 13. Project site (light red outline) and API (dark red outline) plotted on a Sanborn Fire Insurance map from 1950.

Appendix B.
Sacred Lands File Search

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PALEONTOLOGICAL RESOURCES TECHNICAL REPORT FOR THE 6300 WEST THIRD STREET PROJECT, LOS ANGELES, CALIFORNIA

February 2019

PREPARED FOR

Holland Partner Group
5000 E. Spring Street
Suite 500
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PREPARED BY

SWCA Environmental Consultants
51 West Dayton Street
Pasadena, CA 91105

Paleontological resources can be damaged or destroyed through uncontrolled public disclosure of information regarding their location. This document contains sensitive information regarding the nature and location of paleontological sites that should not be disclosed to the general public or unauthorized persons.

Paleontological Resources Technical Report for the 6300 West Third Street Project, Los Angeles, California

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EXECUTIVE SUMMARY

Purpose and Scope: The Holland Partner Group retained SWCA Environmental Consultants (SWCA) to conduct a paleontological resources study for the proposed 6300 West Third Street Project (project) located in the Los Angeles, California. The Holland Partner Group proposes to demolish two existing buildings and surface parking lot and construct one 8-story, mixed-use commercial and residential building on a 7.5-acre property located at 6300 West Third Street (project site). The eastern half of the shopping center currently occupied by Kmart and other retail tenants would be demolished and replaced by new construction. Ground-disturbing construction activities would involve grading, excavation, shoring tie-backs, and drilling of soldier piles conducted using loaders, excavators, compactors, hauling trucks, and a drill. The maximum anticipated depth of excavation below existing surface grade is approximately 30 feet. The ground disturbing activities proposed by the project are defined as the area of potential impact (API), which measures 3.25 acres (141,753 square feet).

This paleontological resources study is intended to characterize and describe paleontological resources identified within the API that could be affected by ground-disturbing activities associated with the project. This report includes a review of laws, ordinances, and regulations relevant to this project, as well as a records search from the Natural History Museum of Los Angeles County (LACM) and a review of geologic mapping, the scientific literature, and previous geotechnical investigations at the project site. This study was completed in compliance with federal statutes (The Antiquities Act of 1906; The National Environmental Policy Act of 1969; The Omnibus Public Lands Act; etc.) as well as California state statutes (the California Environmental Quality Act [CEQA] and the California Public Resources Code) and following the professional standards of the Society of Vertebrate Paleontology (SVP).

Dates of Investigation: A records search was requested from the Natural History Museum of Los Angeles County (LACM) on April 4, 2018. This report was completed in September 2018.

Findings: The surface of the API is currently paved and consists of surface parking lots and existing buildings. The subsurface of the site consists primarily of older alluvium, with the southeastern corner composed of younger alluvium overlying older alluvium at an estimated depth of 1 m (3 feet). Older alluvium has high paleontological sensitivity because it is of an age known to preserve fossil resources and has a well-established record of fossil preservation throughout the Los Angeles Basin. No previously recorded fossil localities were identified within the project site or API during the records search. The LACM has records of fossil localities from within 1 km (0.62 mile) of the project site.

Conclusion: The depth of excavation for the project is approximately 30 feet below the surface within the older alluvium. Older alluvium has a record of preserving fossil resources in the Los Angeles Basin. Construction activities on the site would comply with applicable regulatory measures to minimize impacts on known and unknown paleontological resources. In addition, considering the location of the site, and the potential for paleontological resources to be present on it, this report contains measures designed to reduce potential impacts to less than significant levels. These measures include: retaining a qualified paleontologist, preparing a paleontological resource monitoring and mitigation program, conducting a worker environmental awareness program training, and monitoring for fossil resources. These measures contain standards to ensure that any discovered resources are not significantly impacted. The measures have been developed in accordance with the standards established by the Society of Vertebrate Paleontology (SVP) and are consistent with the guidance in the Conservation Element of the City of Los Angeles General Plan. Similar mitigation measures have been used throughout California to protect paleontological resources while allowing timely completion of construction. Regulatory compliance and adherence to these measures will reduce impacts of the project to paleontological resources to less-than-significant levels.

Disposition of Data: This report will be on file with the following entities: City of Los Angeles, The Holland Partner Group, and SWCA's Pasadena office.

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APPENDICES

Appendix A. Natural History Museum of Los Angeles County Records Search Results

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INTRODUCTION

The Holland Partner Group retained SWCA Environmental Consultants (SWCA) to provide paleontological resources services in support of the 6300 West Third Street Project (project) in Los Angeles, California (Figure 1–Figure 3). The project proposes to demolish two existing buildings and surface parking lot and construct one 8-story, mixed-use commercial and residential building on a 7.5-acre property located at 6300 West Third Street (project site). The ground disturbing activities proposed by the project are defined as the area of potential impact (API)[1], which occupies the eastern portion of the project site and measures 3.25 acres (141,753 square feet). SWCA performed a desktop analysis to assess paleontological conditions throughout the project site and API and reviewed relevant technical documents and museum databases on paleontological resources. The desktop research is summarized in this paleontological resources technical report (PRTR), which documents the existing paleontological conditions within the project site and API.

Paleontological Resources Study Personnel

SWCA Lead Paleontologist Alyssa Bell, Ph.D., conducted the paleontological analysis and authored this report. Geographic Information Systems (GIS) Specialist John Walls produced the figures. SWCA Paleontological Resources Principal Investigator Russell Shapiro, Ph.D., reviewed this report. SWCA project managers Chris Millington, M.A. and Alex Wesson. B.A. provided oversight on this project.

PROJECT DESCRIPTION

Proposed Project Work

The project site is at the southeast corner of Third Street and Fairfax Avenue in the city of Los Angeles, California. The site is a rectangular parcel currently occupied by a two-story commercial structure with a basement level and an associated asphalt-paved parking lot. The site is bounded by Third Street to the north by an existing commercial development, and by Fairfax Avenue to the west, by South Ogden Drive to the east, and by an alleyway and Hancock Park Elementary School to the south.

The Holland Partner Group proposes to redevelop the existing commercial center located at the southeastern corner of Fairfax Avenue and Third Street. The project anticipates 83,994 square feet of new commercial floor area, 5 stories of multi-family residential, three levels of above-grade parking and retail, and 2 levels of underground parking. The eastern half of the shopping center currently occupied by Kmart and other retail tenants would be demolished and replaced by new construction. Ground-disturbing construction activities would involve grading, excavation, shoring tie-backs, and drilling of soldier piles conducted using loaders, excavators, compactors, hauling trucks, and a drill. The maximum anticipated depth of excavation below existing surface grade is approximately 30 feet. The API for the project includes all areas in which ground disturbances are proposed to occur.

[1] Whereas the project's geographic location and results of the background research reference the project site, references to the API are made when potential impacts under CEQA are specifically being considered, e.g., in the discussion of paleontological resources sensitivity and impact analysis stated in the conclusion.



Figure 1. Project location and vicinity.

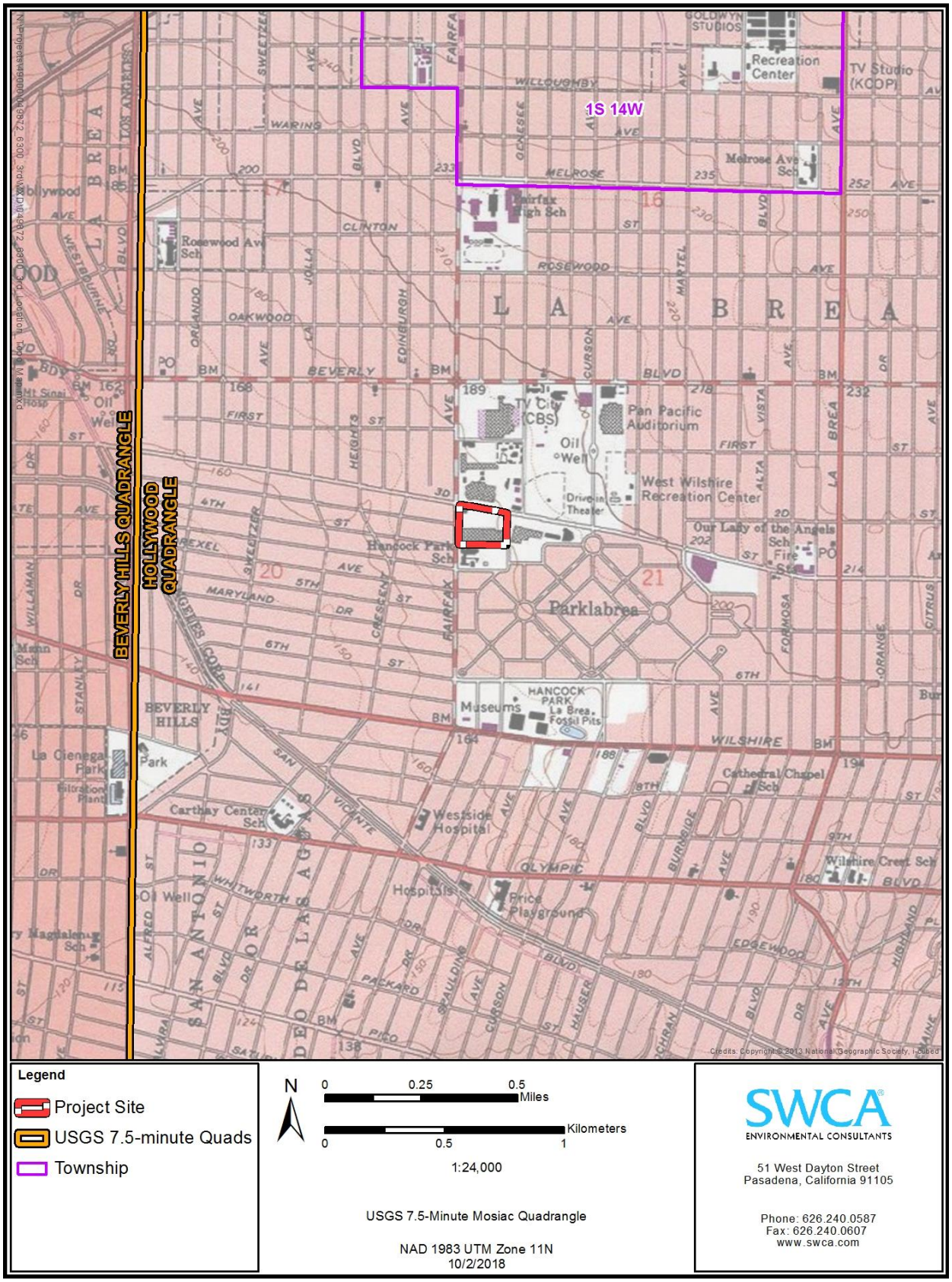

Figure 2. Project site location plotted on the USGS Hollywood California, 7.5-minute quadrangle.

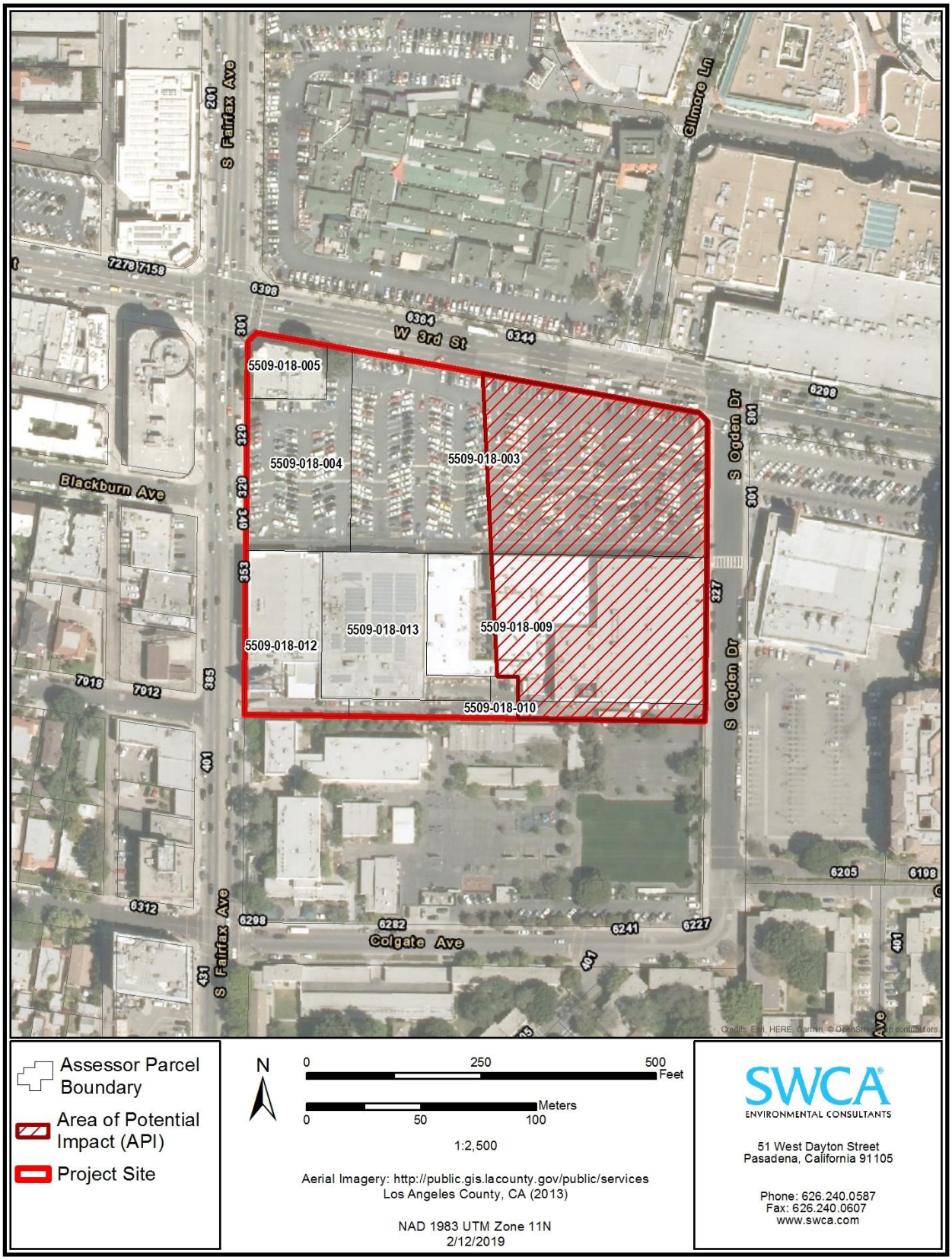

Figure 3. Project site and API plotted on an aerial photograph and street map.

DEFINITION AND SIGNIFICANCE OF PALEONTOLOGICAL RESOURCES

Paleontology is a multidisciplinary science that combines elements of geology, biology, chemistry, and physics to understand the history of life on earth. Paleontological resources, or fossils, are the remains, imprints, or traces of once-living organisms preserved in rocks and sediments (Murphey and Daitch 2007). Therefore, a wide range of material is represented in the fossil record, including bones and teeth, soft tissues, shells, wood, leaf impressions, footprints, burrows, and microscopic remains, which may vary in their degree of mineralization

The fossil record is the only evidence that life on earth has existed for more than 3.6 billion years. Fossils are considered nonrenewable resources because the organisms they represent no longer exist. Thus, once destroyed, a fossil can never be replaced (Murphey and Daitch 2007). Fossils are important scientific and educational resources and can be used to:

- study the phylogenetic relationships amongst extinct organisms, as well as their relationships to modern groups;
- elucidate the taphonomic, behavioral, temporal, and diagenetic pathways responsible for fossil preservation, including the biases inherent in the fossil record;
- reconstruct ancient environments, climate change, and paleoecological relationships;
- provide a measure of relative geologic dating, which forms the basis for biochronology and biostratigraphy, and is an independent and corroborating line of evidence for isotopic dating;
- study the geographic distribution of organisms and tectonic movements of land masses and ocean basins through time;
- study patterns and processes of evolution, extinction, and speciation; and
- identify past and potential future human-caused effects to global environments and climates (Murphey and Daitch 2007).

REGULATORY SETTING

Paleontological resources are limited, nonrenewable resources of scientific, cultural, and educational value and are afforded protection under federal and state laws and regulations. This study satisfies project requirements in accordance with both federal and state regulations. This analysis also complies with guidelines and criteria specified by the Society of Vertebrate Paleontology (1995, 2010).

Federal Regulations

Paleontological Resources Preservation, Omnibus Public Lands Act, Public Law 111-011, Title VI, Subtitle D (PRPA), 2009

This legislation directs the Secretaries of the U.S. Department of the Interior (USDI) and U.S. Department of Agriculture (USDA) to manage and protect paleontological resources on federal land using "scientific principles and expertise." To formulate a consistent paleontological resources management framework, the Paleontological Resources Preservation Act (PRPA) incorporates most of the recommendations from the report of the Secretary of the Interior titled *Assessment of Fossil Management on Federal and Indian Lands* (USDI 2000). In passing the PRPA, Congress officially recognized the scientific importance of paleontological resources on some federal lands by declaring that fossils from these lands are federal property that must be preserved and protected. The PRPA codifies existing policies of the Bureau of Land

Management (BLM), National Park Service (NPS), U.S. Forest Service (USFS), Bureau of Reclamation, and U.S. Fish and Wildlife Service (USFWS), and provides the following:

- uniform criminal and civil penalties for illegal sale and transport, and theft and vandalism of fossils from federal lands;
- uniform minimum requirements for paleontological resource-use permit issuance (terms, conditions, and qualifications of applicants);
- uniform definitions for "paleontological resources" and "casual collecting;" and
- uniform requirements for curation of federal fossils in approved repositories.

Federal Land Policy and Management Act (FLPMA) of 1976

The Federal Land Policy and Management Act (FLPMA) of 1976 (43 U.S. Code [USC] 1712[c], 1732[b]); Section 2, Federal Land Management and Policy Act of 1962 [30 USC 611]; Subpart 3631.0 et seq.), Federal Register Vol. 47, No. 159, 1982, does not refer specifically to fossils. However, "significant fossils" are understood and recognized in policy as scientific resources. Permits, which authorize the collection of significant fossils for scientific purposes, are issued under the authority of FLPMA. Under FLPMA, federal agencies are charged to:

- manage public lands in a manner that protects the quality of scientific, scenic, historical, ecological, environmental, air and atmospheric, archaeological, and water resources, and, where appropriate, preserve and protect certain public lands in their natural condition (Section 102[a][8] [11]);
- periodically inventory public lands so that the data can be used to make informed land-use decisions (Section 102[a][2]); and
- regulate the use and development of public lands and resources through easements, licenses, and permits (Section 302[b]).

The National Environmental Policy Act (NEPA) of 1969

The National Environmental Policy Act of 1969 (NEPA), as amended (Public Law [PL] 91-190, 42 USC 4321-4347, January 1, 1970, as amended by PL 94-52, July 3, 1975, PL 94-83, August 9, 1975, and PL 97-258 Section 4(b), Sept. 13, 1982) recognizes the continuing responsibility of the federal government to "preserve important historic, cultural, and natural aspects of our national heritage…" (Section 101 [42 USC Section 4321]; No. 382). With the passage of the PRPA, paleontological resources are considered a significant resource, and it is therefore now standard practice to include paleontological resources in NEPA studies in all instances where there is a possible impact.

Antiquities Act of 1906

The Antiquities Act of 1906 (16 USC 431-433) states, in part:

> That any person who shall appropriate, excavate, injure or destroy any historic or prehistoric ruin or monument, or any object of antiquity, situated on lands owned or controlled by the Government of the United States, without the permission of the Secretary of the Department of the Government having jurisdiction over the lands on which said antiquities are situated, shall upon conviction, be fined in a sum of not more than five hundred dollars or be imprisoned for a period of not more than ninety days, or shall suffer both fine and imprisonment, in the discretion of the court.

Although there is no specific mention of natural or paleontological resources in the Act itself, or in the Act's uniform rules and regulations (Title 43 Part 3, Code of Federal Regulations [43 CFR 3]), the term "objects

of antiquity" has been interpreted to include fossils by the NPS, BLM, USFS, and other federal agencies. Permits to collect fossils on lands administered by federal agencies are authorized under this Act. However, due to the large gray areas left open to interpretation due to the imprecision of the wording, agencies are hesitant to interpret this act as governing paleontological resources.

State Regulations

California Environmental Quality Act (CEQA)

CEQA is the principal statute governing environmental review of projects occurring in the state and is codified at Public Resources Code (PRC) Section 21000 et seq. CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on paleontological resources. Guidelines for the Implementation of CEQA, as amended December 1, 2016 (Title 14, Chapter 3, California Code of Regulations 15000 et seq.), define procedures, types of activities, persons, and public agencies required to comply with CEQA, and include as one of the questions to be answered in the Environmental Checklist (Section 15023, Appendix G, Section XIV, Part a) the following: "Will the proposed project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?"

Public Resources Code (PRC) Section 5097.5

Requirements for paleontological resource management are included in the PRC Division 5, Chapter 1.7, Section 5097.5, and Division 20, Chapter 3, Section 30244, which states:

> No person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.

These statutes prohibit the removal, without permission, of any paleontological site or feature from lands under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, local agencies are required to comply with PRC 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others. PRC Section 5097.5 also establishes the removal of paleontological resources as a misdemeanor, and requires reasonable mitigation of adverse impacts to paleontological resources from developments on public (state, county, city, and district) lands.

Local Regulations

City of Los Angeles General Plan

The Conservation Element of the City of Los Angeles General Plan recognizes paleontological resources in Section 3: "Archeological and Paleontological" (II-3), and contains an objective (II-5) to protect the city's archaeological and paleontological resources for historical, cultural, research and/or educational purposes. The General Plan also states:

> Pursuant to CEQA, if a land development project is within a potentially significant paleontological area, the developer is required to contact a bona fide paleontologist to arrange for assessment of the potential impact and mitigation of potential disruption of or damage to the site. If significant paleontological resources are uncovered during project

> execution, authorities are to be notified and the designated paleontologist may order excavations stopped, within reasonable time limits, to enable assessment, removal or protection of the resources (City of Los Angeles 2001:II-5).

RESOURCE ASSESSMENT GUIDELINES

Resource guidelines are designed to protect against the loss of any identifiable fossil that could yield information important to prehistory, or that embodies the distinctive characteristics of a type of organism, environment, period of time, or geographic region. Direct impacts on paleontological resources primarily concern the potential destruction of nonrenewable paleontological resources and the loss of information associated with these resources. This includes the unauthorized collection of fossil remains. If potentially fossiliferous bedrock or surficial sediments are disturbed, the disturbance could result in the destruction of paleontological resources and subsequent loss of information. At the project-specific level, direct impacts can be reduced to a less-than-significant level through regulatory compliance and with the implementation of paleontological mitigation, when needed

The CEQA Guidelines provides a threshold of significance for impacts to paleontological resources that states "would the project directly or indirectly destroy a significant paleontological resource or unique geologic feature" (Appendix G, State CEQA Guidelines). In general, for project areas underlain by paleontologically sensitive geologic units, the greater the amount of ground disturbance, the higher the potential for significant impacts to paleontological resources. For project areas directly underlain by geologic units with no paleontological sensitivity, there is no potential for impacts on paleontological resources unless sensitive geologic units that underlie the non-sensitive unit are also affected. This report assesses the sensitivity of the site in relation to the applicable CEQA thresholds of significance.

Professional Standards

The Society of Vertebrate Paleontology (SVP) has established standard guidelines that outline professional protocols and practices for conducting paleontological resource assessments and surveys, monitoring and mitigation, data and fossil recovery, sampling procedures, and specimen preparation, identification, analysis, and curation (1995, 2010). The recommended mitigation measures below incorporate these performance standards and protocols. Most practicing professional vertebrate paleontologists adhere closely to the SVP's assessment, mitigation, and monitoring requirements as specifically provided in its standard guidelines. Most state regulatory agencies with paleontological laws, ordinances, regulations, and standards accept and use the professional standards set forth by the SVP.

As defined by the SVP, significant paleontological resources are defined as:

> fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years). (SVP 2010:11).

Based on the definitions of the SVP (2010), all identifiable vertebrate fossils are considered to have significant scientific value. This is because vertebrate fossils are relatively uncommon, and only rarely will a fossil locality yield a statistically significant number of specimens of the same genus. Therefore, every vertebrate fossil found has the potential to provide significant new information about the taxon it represents, its paleoenvironment, and/or its distribution. Furthermore, all geologic units in which vertebrate fossils have previously been found are considered to have high sensitivity. Identifiable plant and invertebrate

fossils are considered significant if found in association with vertebrate fossils or if defined as significant by project paleontologists, specialists, or local government agencies.

A geologic unit known to contain significant fossils is considered sensitive to adverse impacts if there is a high probability that earth-moving or ground-disturbing activities in that rock unit will either disturb or destroy fossil remains directly or indirectly. This definition of sensitivity differs fundamentally from the definition for archaeological resources as follows:

> It is extremely important to distinguish between archaeological and paleontological (fossil) resource sites when defining the sensitivity of rock units. The boundaries of archaeological sites define the areal extent of the resource. Paleontological sites, however, indicate that the containing sedimentary rock unit or formation is fossiliferous. The limits of the entire rock formation, both areal and stratigraphic, therefore define the scope of the paleontological potential in each case (SVP 1995).

Many archaeological sites contain features visually detectable on the surface. In contrast, fossils are often contained within surficial sediments or bedrock, and are therefore not observable or detectable unless exposed by erosion or human activity.

In summary, paleontologists cannot know either the quality or quantity of fossils prior to natural erosion or human-caused exposure. As a result, even in the absence of fossils on the surface, it is necessary to assess the sensitivity of rock units based on their known potential to produce significant fossils elsewhere within the same geologic unit (both within and outside the study area), a similar geologic unit, or based on whether the unit in question was deposited in a type of environment known to be favorable for fossil preservation. Monitoring by experienced paleontologists greatly increases the probability that fossils will be discovered during ground-disturbing activities and that, if these remains are significant, successful mitigation and salvage efforts may be undertaken to prevent adverse impacts to these resources.

Paleontological Sensitivity

Paleontological sensitivity is defined as the potential for a geologic unit to produce scientifically significant fossils. This is determined by rock type, history of the geologic unit in producing significant fossils, and fossil localities recorded from that unit. Paleontological sensitivity is derived from the known fossil data collected from the entire geologic unit, not just from a specific survey. In its "Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources," the SVP (2010:1–2) defines four categories of paleontological sensitivity (potential) for rock units: high, low, undetermined, and no potential:

High Potential. "Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered are considered to have a high potential for containing additional significant paleontological resources. Rocks units classified as having high potential for producing paleontological resources include, but are not limited to, sedimentary formations and some volcaniclastic formations (e.g., ash or tephra), and some low-grade metamorphic rocks which contain significant paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils (e.g., middle Holocene and older, fine-grained fluvial sandstone, argillaceous and carbonate-rich paleosols, cross-bedded point bar sandstone, fine-grained marine sandstone, etc.). Paleontological potential consists of both a) the potential for yielding abundant or significant vertebrate fossils or for yielding a few significant fossils, large or small, vertebrate, invertebrate, plant, or trace fossils and b) the importance of recovered evidence for new and significant taxonomic, phylogenetic, paleoecologic, taphonomic, biochronologic, or stratigraphic data. Rock units which contain potentially datable organic remains older than late Holocene, including deposits associated with animal nests or

middens, and rock units which may contain new vertebrate deposits, traces, or trackways are also classified as having high potential."

Low Potential. "Reports in the paleontological literature or field surveys by a qualified professional paleontologist may allow determination that some rock units have low potential for yielding significant fossils. Such rock units will be poorly represented by fossil specimens in institutional collections, or based on general scientific consensus only preserve fossils in rare circumstances and the presence of fossils is the exception not the rule, e.g. basalt flows or Recent colluvium. Rock units with low potential typically will not require impact mitigation measures to protect fossils."

Undetermined Potential. "Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment are considered to have undetermined potential. Further study is necessary to determine if these rock units have high or low potential to contain significant paleontological resources. A field survey by a qualified professional paleontologist to specifically determine the paleontological resource potential of these rock units is required before a paleontological resource impact mitigation program can be developed. In cases where no subsurface data are available, paleontological potential can sometimes be determined by strategically located excavations into subsurface stratigraphy."

No Potential. "Some rock units have no potential to contain significant paleontological resources, for instance high-grade metamorphic rocks (such as gneisses and schists) and plutonic igneous rocks (such as granites and diorites). Rock units with no potential require no protection or impact mitigation measures relative to paleontological resources" (SVP 2010:1–2).

METHODS

This PRTR is based on a desktop review of available scientific literature, geologic maps, a records search from the Natural History Museum of Los Angeles County (LACM), and a geotechnical study of the project site by Geocon West Inc. (Geocon 2018). This PRTR conforms to industry standards as developed by the SVP (1995, 2010). The purpose of this analysis is to 1) determine whether any previously recorded fossil localities occur in the project site, 2) assess the potential for disturbance of these localities during construction, and 3) evaluate the paleontological sensitivity of the project site and API.

RESULTS

Literature Search Results

Geologic Setting

The project site is located in the Los Angeles Basin, a structural depression approximately 80 km (50 miles) long and 32 km (20 miles) wide in the northernmost Peninsular Ranges Geomorphic Province (Ingersoll and Rumelhart 1999). The Los Angeles Basin developed as a result of tectonic forces and the San Andreas Fault zone, with subsidence occurring 18 to 3 million years ago (Ma; Critelli et al. 1995). Although sediments dating back to the Cretaceous (66 Ma) are preserved in the basin, continuous sedimentation began in the middle Miocene (around 13 Ma; Yerkes et al. 1965). Since that time, sediments have been eroded into the basin from the surrounding highlands, resulting in thousands of feet of accumulation (Yerkes et al. 1965). Most of these sediments are marine until sea level dropped in the Pleistocene (2.58 Ma to 11,700 years ago) and deposition of the alluvial sediments that compose the uppermost units in the Los Angeles Basin began.

The Los Angeles Basin is further subdivided into four structural blocks; the project site is in the Central Block, where sediments range from 9,754 to 10,668 m (32,000–35,000 feet) thick (Yerkes et al. 1965). The

Central Block is wedge shaped and extends from the Santa Monica Mountains in the northwest, where it is about 16 km (10 miles) wide, to the San Joaquin Hills to the southeast, where it widens to around 32 km (20 miles) across (Yerkes et al. 1965).

Locally, the project site is located in the alluvial plain between the Baldwin Hills to the southwest and the Santa Monica Mountains to the north. The Baldwin Hills form a chain of low hills that were uplifted by folding and later modified by faulting associated with the Inglewood Fault and its offshoots, which bisect the hills (Hamilton and Meehan 1971). The Santa Monica Mountains form the northern boundary of the Los Angeles Basin, where basement rocks overlain by approximately 4,420 m (14,500 feet) of late Cretaceous to Pleistocene sediments were uplifted in the early Pliocene along the Santa Monica Fault Zone (Yerkes et al. 1965). Erosion of sediments from these highlands into the basin has controlled sediment deposition in and around the project site up to the present day.

Project Geology

Yerkes (1997) mapped the geology in the vicinity of the project site at a scale of 1:24,000 (Figure 4). The surficial geology of the project site consists primarily of older alluvium (Qao in Figure 4), with younger alluvium (Qay2) present in the southeast corner of the project site and API. These units are discussed below.

Young Alluvium (Qay2). Young alluvium is present at the surface of the southeastern corner of the project site and API. This unit consists of unconsolidated gravel, sand, silt, and clay in active drainages, and is less than 1,000 years old (Yerkes 1997). This unit is too young to preserve fossil resources, and therefore is assigned low paleontological sensitivity. However, this unit is very thin (0–3 m [0–9 feet] thick), and overlies older alluvium, discussed below, which has high paleontological sensitivity. Ground-disturbing activity that extends through the young alluvium risks disturbing fossil resources in the underlying older alluvium.

Older Alluvium (Qao). Older alluvium is present at the surface across most of the project site and API. Sediments mapped as older alluvium consist of moderately to well-consolidated gravel, sand, silt, and clay deposited in the basin during the late Pleistocene, approximately 78,000 to 11,700 years ago (Yerkes 1997). These Pleistocene sediments have a rich fossil history in southern California, including within 1 km (0.62 mile) of the project site (Jefferson 1991a, 1991b; McLeod 2018; Miller 1971; Reynolds and Reynolds 1991; Springer et al. 2009). The most common Pleistocene terrestrial mammal fossils include the bones of mammoth, bison, deer, and small mammals, but other taxa, including horse, lion, cheetah, wolf, camelid, antelope, peccary, mastodon, capybara, and giant ground sloth, have been reported (Graham and Lundelius 1994), as well as reptiles such as frogs, salamanders, and snakes (Hudson and Brattstrom 1977). In addition to illuminating the striking differences between southern California in the Pleistocene and today, this abundant fossil record has been vital in studies of extinction (e.g., Barnosky et al. 2004; Sandom et al., 2014), ecology (e.g., Connin et al. 1998), and climate change (e.g., Roy et al. 1996; Shapiro 2016).

Records Search Results

The data provided by the LACM indicates that although there are no reported fossil localities in the project site or API, fossils have been reported from older alluvium within 1 km (0.62 mile) of the project site (McLeod 2018). The closest fossil localities known to the LACM in older alluvial sediments are located across Third Street from the project site, and were discovered during construction for The Grove shopping center. Immediately north of the project site, LACM 7495 preserved specimens of pond turtle (*Clemmys*), garter snake (*Thamnophis*), mammoth (*Mammuthus columbi*), cottontail rabbit (*Sylvilagus*), kangaroo rat (*Dipodomys*), meadow mouse (*Microtus*), pocket gopher (*Thomomys*), horse (*Equus occidentalis*), bison (*Bison antiquus*), and camel (*Camelops hesternus*) at a depth of about 10 feet below ground surface (bgs;

McLeod 2018). Just to the east of LACM 7495, LACM 7478 produced fossil specimens of pocket gopher (*Thomomys*) at a depth of 46 feet bgs (McLeod 2018).

To the east of the project site in Park La Brea, south of Third Street, localities LACM 7513 through 7516 were found between Curson Avenue and Genesee Avenue, and localities LACM 7417 through 7518 were found near the intersection of Fuller Avenue and Third Street. These localities produced a similar fauna to those found at The Grove, including garter snake (*Thamnophis*), ground sloth (*Glossotherium harlani*), cottontail rabbit (*Sylvilagus*), kangaroo rat (*Dipodomys*), meadow mouse (*Microtus californicus*), deer mouse (*Peromyscus*), pocket gopher (*Thomomys*), spotted skunk (*Spilogale*), horse (*Equus occidentalis*), and camel (*Camelops hesternus*) at depths as shallow as 3 feet bgs (McLeod 2018).

Paleontological Sensitivity

The review of the literature and the records of the LACM indicate that older alluvium found at the shallow subsurface of the API has high paleontological sensitivity, whereas younger alluvium has low sensitivity but overlies older alluvium at potentially shallow depths (Figure 5). Older alluvium has a record of preserving significant fossil resources in the Los Angeles Basin, as demonstrated by the review of the scientific literature and the LACM records search conducted for this assessment. Older alluvium is likely to occur underneath the younger alluvium identified in the southeast corner of the API beginning at depths of 1 m (3 feet). This depth is an estimate based on the generally thin nature of young alluvium (Yerkes 1997) as well as the shallow depth of other fossil deposits in the vicinity of the project site (McLeod 2018).

The Rancho La Brea Tar Pits are located less than 1.6 km (1 mile) to the southeast of the project site. The asphaltic deposits at the Rancho La Brea Tar Pits have preserved some of the best Ice Age fossil assemblages known in the world. The asphaltic deposits are not known to extend to the north and are not expected to be present in the subsurface of the project site and API (McLeod 2018). This is further supported by the geotechnical assessment, which did not identify asphaltic sediments in any of the subsurface borings (Geocon 2018).

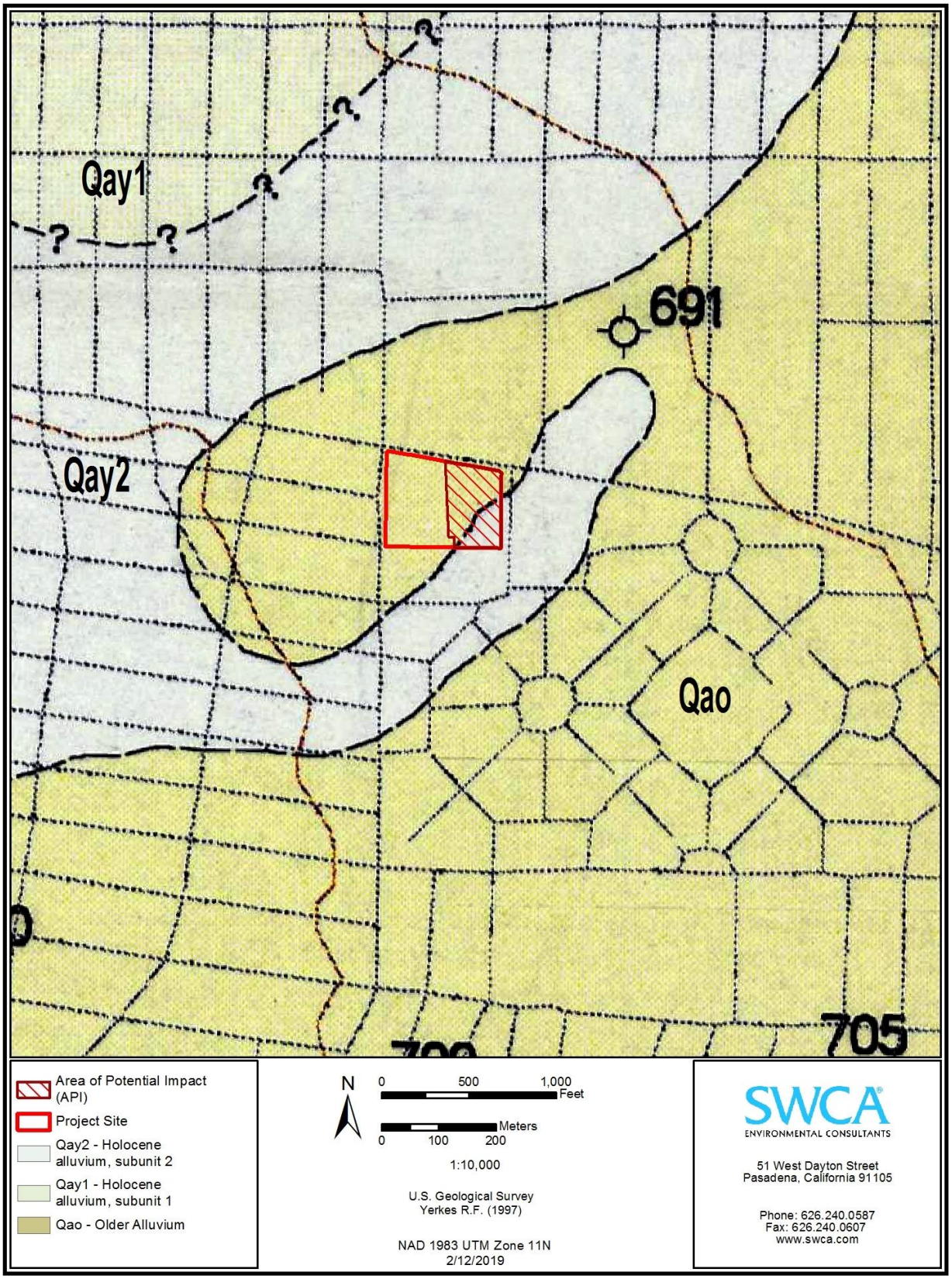

Figure 4. Geology of the API, project site, and vicinity.

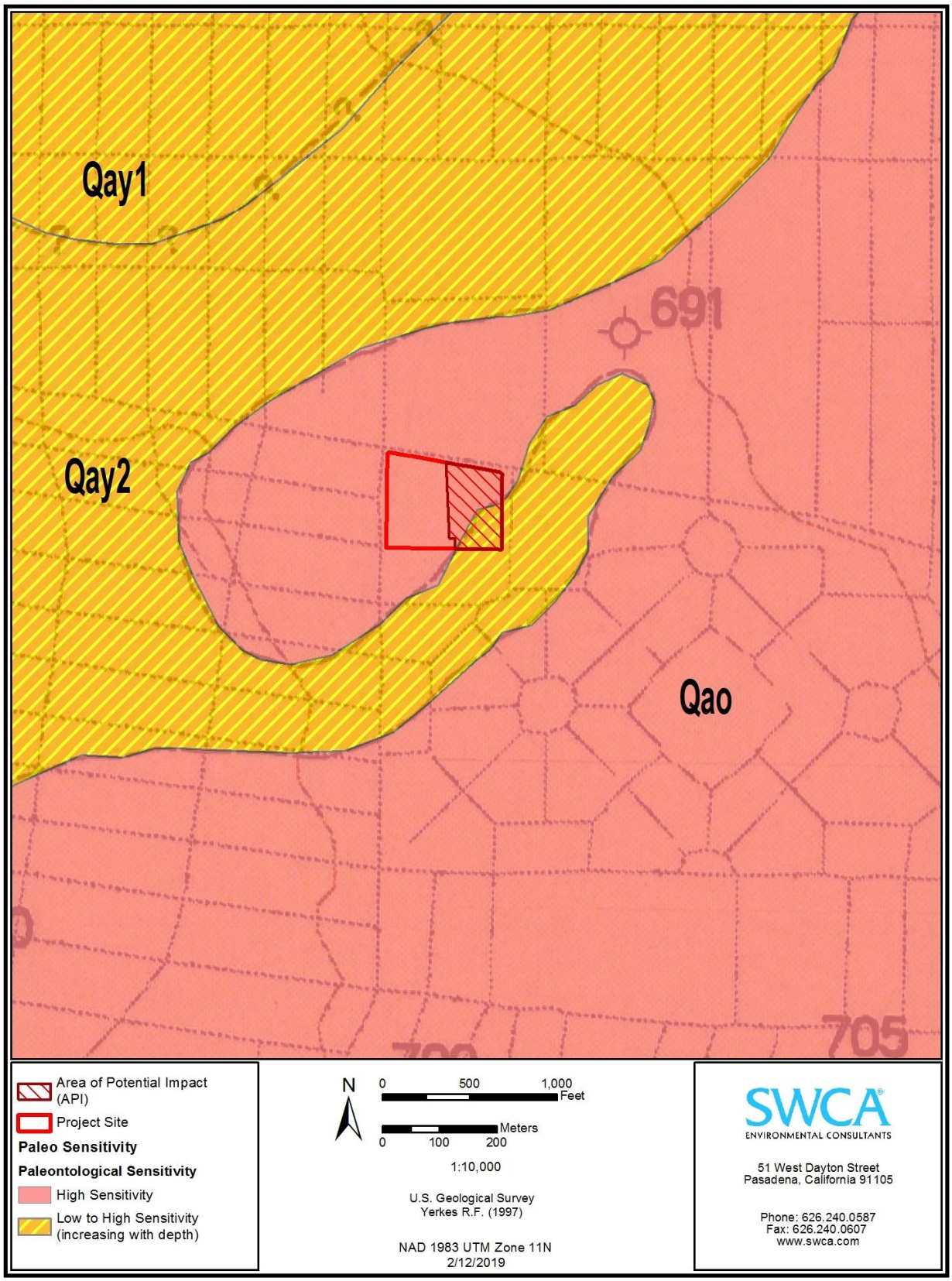

Figure 5. Paleontological sensitivity of the API, project site, and vicinity.

CONCLUSION

The review of the literature and the records of the LACM indicate that older alluvium found at the surface of the API has high paleontological sensitivity, younger alluvium identified in the southeast corner of the API has low sensitivity but overlies older alluvium at potentially shallow depths beginning at 1 m (3 feet) deep. Older alluvium has a record of preserving significant fossil resources in the Los Angeles Basin. The estimated depth of excavation for the project is approximately 30 feet below the surface within the older alluvium.

Construction at the project site would adhere to applicable regulatory compliance measures intended to reduce and avoid creating significant impacts to paleontological resources in the event of a discovery during grading, excavation, or other soil disturbing activities. As noted above, certain soils in the API have high sensitivity based on reviewed databases. Accordingly, to ensure that potential impacts to significant fossil resources that may be present in the API are clearly less than significant, SWCA recommends the mitigation measures outlined below. These mitigation measures have been developed in accordance with, and incorporate the performance standards of, the SVP (2010) and City of Los Angeles General Plan Conservation Element. At the discretion of the project proponent, the mitigation measures for paleontological resource may be implemented in concert with those measures established for archaeological resources including, but not limited to, preparation of a monitoring program, worker training, monitoring, and reporting. These measures will reduce impacts to paleontological resources to less-than-significant levels.

- **MM Paleo-1: Retain a Qualified Paleontologist**. Prior to the issuance of a grading permit, the project proponent shall retain a qualified paleontologist, defined as a paleontologist who meets the Society of Society of Vertebrate Paleontology (SVP) standards for a Principal Investigator or Project Paleontologist, to carry out all mitigation measures related to paleontological resources. The qualified paleontologist shall submit a letter of retention to the project proponent no fewer than 15 days before any grading or excavation activities commence. The letter shall include a resume for the qualified paleontologist that demonstrates fulfillment of the SVP standards.
- **MM Paleo-2: Prepare Paleontological Resources Monitoring and Mitigation Program (PRMMP).** Before any grading activities start, the qualified paleontologist shall prepare a PRMMP. This program shall contain specific monitoring and mitigation requirements including construction worker training, monitoring protocols, protocol for identifying the conditions under which additional or reduced levels of monitoring (e.g., spot-checking) may be appropriate, fossil salvage and data collection protocols in the event of an unanticipated discovery, curation facilities for any significant fossils that may be salvaged, and a final report summarizing the results of the program. The PRMMP shall adhere to and incorporate the performance standards and practices from the 2010 SVP *Standard procedures for the assessment and mitigation of adverse impacts to paleontological resources*. The qualified paleontologist shall submit the final PRMMP to the project proponent and the Department of City Planning (DCP) for their records before project excavation activities start.
- **MM Paleo-3: Worker's Environmental Awareness Program (WEAP).** The qualified paleontologist shall develop and oversee implementation of a WEAP to train the construction crew on the requirements for preserving fossil resources, as well as procedures and standards to follow, in the event of a fossil discovery. This training program shall be given to the crew before excavation work commences and shall include documentation for the workers that includes that memorializes the standards and protocols of the WEAP training.
- **MM Paleo-4: Monitor for Fossil Resources.** All ground disturbances in the API that occur in undisturbed sediments mapped as older alluvium (Qao) shall be monitored. Excavation or any other ground disturbances occurring in the southeast corner of the project site within younger alluvial

sediments shall be monitored when the ground disturbances exceed 1 m (3 feet) in depth. Monitoring shall be conducted by a qualified paleontologist or under the supervision of qualified paleontologist, as stipulated in the PRMMP. The qualified paleontologist may periodically inspect construction activities to adjust the level of monitoring in response to subsurface conditions. Full-time monitoring can be reduced to part-time inspections or stopped entirely if determined adequate by the qualified paleontologist. Paleontological monitoring shall include inspection of exposed sedimentary units during active excavations within sensitive geologic sediments.

In the event of a fossil discovery, whether by the paleontological monitor or a member of the construction crew, all work shall cease in a 15-m (50-foot) radius of the find while the qualified paleontologist assesses the fossil and documents its discovery. Paleontological monitors shall record pertinent geologic data and collect sediment samples from the fossil localities. The qualified paleontological monitor shall follow the SVP's 2010 *Standard procedures for the assessment and mitigation of adverse impacts to paleontological resources* if the resource requires salvage. A repository, e.g., LACM, shall be identified and a curatorial arrangement shall be signed prior to collection of fossils. Recovered fossils shall be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility.

Within 14 days of concluding the paleontological monitoring, the qualified paleontologist shall prepare a memorandum stating that the paleontological monitoring requirement has been fulfilled and summarize the results of any paleontological finds. The memo shall be submitted to the project proponent and DCP. Following submittal of the memo, the qualified paleontologist shall prepare a technical report documenting the methods and results of all work completed under the PRMMP, including, if any, treatment of paleontological materials, results of specimen processing, analysis, and research, and final curation arrangements.

LITERATURE CITED

Barnosky, A., C. Bell, S. Emslie, H. T. Goodwin, J. Mead, C. Repenning, E. Scott, and A. Shabel. 2004. Exceptional record of mid-Pleistocene vertebrates helps differentiate climatic from anthropogenic ecosystem perturbations. Proceedings of the National Academy of Sciences 101:9297–9302.

City of Los Angeles. 2001. Conservation Element of the City of Los Angeles General Plan, City Plan Case No. 2001-0413-GPA, Council File No. 01-1094. Electronic document, http://cityplanning.lacity.org/cwd/gnlpln/consvelt.pdf, accessed June 1, 2018.

_____. 2006. D. Cultural Resources. In *LA CEQA Thresholds Guide*. Electronic document, http://www.environmentla.org/programs/Thresholds/DCultural%20Resources.pdf, accessed June 1, 2018.

Connin, S., J. Betancourt, and J. Quade. 1998. Late Pleistocene C4 plant dominance and summer rainfall in the Southwestern United States from isotopic study of herbivore teeth. Quaternary Research 50:179–193.

Critelli, S. P. Rumelhart, and R. Ingersoll, 1995. Petrofacies and provenance of the Puente Formation (middle to upper Miocene), Los Angeles Basin, southern California: implications for rapid uplift and accumulation rates. Journal of Sedimentary Research A65: 656-667.

Geocon West, Inc. 2018. Proposed mixed-use development: the southeast corner of 3rd Street and Fairfax Avenue Los Angeles, California; Tract 215, Lot 12, Arb 1 & 2. Geotechnical Investigation, 179 pp.

Graham, R.W., and E.L. Lundelius. 1994. FAUNMAP: a database documenting the late Quaternary distributions of mammal species in the United States. Illinois State Museum Scientific Papers XXV(1).

Hamilton, D., and R. Mecham. 1971. Ground rupture in the Baldwin Hills. Science 17:333–344.

Hudson, D., and B. Brattstrom. 1977. A small herpetofauna from the Late Pleistocene of Newport Beach Mesa, Orange County, California. Bulletin of the Southern California Academy of Sciences 76: 16-20.

Ingersoll, R. V. and P. E. Rumelhart. 1999. Three-stage basin evolution of the Los Angeles basin, southern California. Geology 27: 593-596.

Jefferson, G. T. 1991a. A catalogue of Late Quaternary Vertebrates from California: part one, nonmarine lower vertebrate and avian taxa. Natural History Museum of Los Angeles County Technical Reports No. 5.

———. 1991b. A catalogue of Late Quaternary Vertebrates from California: part two, mammals. Natural History Museum of Los Angeles County Technical Reports No. 7.

McLeod, S.A. 2018. Natural History Museum of Los Angeles County: Unpublished collections data, July 2, 2018.

Miller, W.E. 1971. Pleistocene vertebrates of the Los Angeles Basin and vicinity: exclusive of Rancho La Brea. Los Angeles County Museum of Natural History No. 10.

Murphey, P.C., and D. Daitch. 2007. Paleontological overview of oil shale and tar sands areas in Colorado, Utah and Wyoming [map]. Scale 1:500,000. U.S. Department of Energy, Argonne National Laboratory. Report prepared for the U.S. Department of Interior Bureau of Land Management.

Reynolds, R.E., and R.L. Reynolds. 1991. The Pleistocene beneath our feet: near-surface Pleistocene fossils in inland southern California basins; pp. 41–43 in M.O. Woodburne, R.E. Reynolds, and D.P. Whistler (eds.), Inland Southern California: the last 70 million years. San Bernardino County Museum Association, Redlands, California.

Roy, K., J. Valentine, D. Jablonski, and S. Kidwell. 1996. Scales of climatic variability and time averaging in Pleistocene biotas: implications for ecology and evolution. Trends in Ecology and Evolution 11:458–463.

Sandom, C., S. Faurby, B. Sandel, and J.-C. Svenning. 2014. Global late Quaternary megafauna extinctions linked to humans, not climate change. Proceedings of the Royal Society B 281, 9 pp.

Shapiro, R.S. 2016. Camelid record of Mesquite Lake, California: impact of earliest Holocene climate change; pp. 41–47 in R. E. Reynolds (ed.), Going LOCO Investigations along the Lower Colorado River. California State University Desert Studies Center, 2016 Desert Symposium Field Guide and Proceedings.

Society of Vertebrate Paleontology (SVP). 1995. Assessment and mitigation of adverse impacts to nonrenewable paleontologic resources: standard guidelines. Society of Vertebrate Paleontology News Bulletin 163:22–27.

———. 2010. Standard procedures for the assessment and mitigation of adverse impacts to paleontological resources. Society of Vertebrate Paleontology. Available at: http://vertpaleo.org/Membership/Member-Ethics/SVP_Impact_Mitigation_Guidelines.aspx. Accessed September 19, 2018.

Springer, K., E. Scott, J. Sagebiel, and L. Murray. 2009. The Diamond Valley Lake local fauna: late Pleistocene vertebrates from inland southern California. In: Albright, L., ed., Papers on Geology, Vertebrate Paleontology, and Biostratigraphy in Honor of Michael O. Woodburne. Museum of Northern Arizona Bulletin 65:217–237.

United States Department of the Interior (USDI). 2000. Assessment of fossil management on federal & indian lands. May 2000. 50 pp.

Yerkes, R.F. 1997. Preliminary geologic map of the Los Angeles 7.5' quadrangle, southern California. U.S. Geological Survey Open File Report 97-254. Scale 1:24,000.

Yerkes, R.F., T.H. McCulloh, J.E. Schollhamer, and J.G. Vedder. 1965. Geology of the Los Angeles Basin: an introduction. Geological Survey Professional Paper 420-A.

Appendix A.
Natural History Museum of Los Angeles County Records Search Results

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Attn: Alyssa Bell, Ph.D., Lead Paleontologist

re: Paleontological resources for the proposed 6300 West 3rd Street Project, SWCA Project # 49872, in the City of Los Angeles, Los Angeles County, project area

Dear Alyssa:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed 6300 West 3rd Street Project, SWCA Project # 49872, in the City of Los Angeles, Los Angeles County, project area as outlined on the portion of the Burbank USGS topographic quadrangle map that you sent to me via e-mail on 28 June 2018. We do not have any vertebrate fossil localities that lie directly within the proposed project area boundaries, but we do have localities very nearby from the same sedimentary deposits that occur in the proposed project area.

The surficial deposits in the entire proposed project area consist of older Quaternary Alluvium that grades down into older Quaternary deposits typically referred to as the Palos Verdes Sand in this area. We have several vertebrate fossil localities from excavations at the adjacent Park La Brea: LACM 7513-7516, immediately east of the proposed project area south of Third Street between Curson Avenue and Genesee Avenue; and LACM 7517-7518, further east of the proposed project area south of Third Street near the intersection with Fuller Avenue. These localities produced a similar fauna containing fossil specimens of garter snake, *Thamnophis*, ground sloth, *Glossotherium harlani*, cottontail rabbit, *Sylvilagus*, kangaroo rat, *Dipodomys*, meadow mouse, *Microtus californicus*, deer mouse, *Peromyscus*, pocket gopher, *Thomomys*, spotted skunk, *Spilogale*, horse, *Equus occidentalis*, and camel, *Camelops hesternus*,

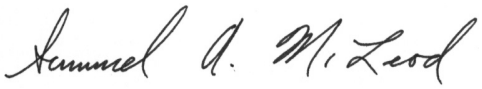
at depths as shallow as 3 feet. We have two vertebrate fossil localities from excavations for the adjacent The Grove project: LACM 7495, directly north of the proposed project area, that produced a fossil fauna containing specimens of pond turtle, *Clemmys*, garter snake, *Thamnophis*, mammoth, *Mammuthus columbi*, cottontail rabbit, *Sylvilagus*, kangaroo rat, *Dipodomys*, meadow mouse, *Microtus*, pocket gopher, *Thomomys*, horse, *Equus occidentalis*, bison, *Bison antiquus*, and camel, *Camelops hesternus*, at a depth of about 10 feet; and LACM 7478, just east of north of the proposed project area, that produced fossil specimens of pocket gopher, *Thomomys*, at a depth of 46 feet.

We have a great number of vertebrate fossil localities further south of the proposed project area at the internationally famous Rancho La Brea deposits in Hancock Park and from Brea deposits in the surrounding vicinity. These Brea deposits apparently do not extend as far north as the proposed project area.

Even shallow excavations in the proposed project area have a good chance of uncovering significant vertebrate fossils in older Quaternary sediments exposed and at depth. Any substantial excavations in the proposed project area, therefore, should be closely monitored to quickly and professionally collect any specimens without impeding development. Sediment samples from the proposed project area should also be collected and processed to determine the small fossil potential of the site. Any fossils recovered during mitigation should be deposited in an accredited and permanent scientific institution for the benefit of current and future generations.

This records search covers only the vertebrate paleontology records of the Natural History Museum of Los Angeles County. It is not intended to be a thorough paleontological survey of the proposed project area covering other institutional records, a literature survey, or any potential on-site survey.

Sincerely,



Samuel A. McLeod, Ph.D.
Vertebrate Paleontology

enclosure: invoice

GEOTECHNICAL INVESTIGATION

PROPOSED MIXED-USE DEVELOPMENT
THE SOUTHEAST CORNER OF 3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

TRACT 215, LOT 12, ARB 1 & 2

GEOCON
WEST, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

HOLLAND ACQUISITION CO, LLC
LOS ANGELES, CALIFORNIA

PROJECT NO. A9713-06-01

REVISED NOVEMBER 16, 2018

Project No. A9713-06-01
Revised November 16, 2018

Mr. Shaun Evans
Holland Acquisition Co., LLC
731 South Spring Street, Suite 202
Los Angeles, California 90014

Subject: GEOTECHNICAL INVESTIGATION
PROPOSED MIXED-USE DEVELOPMENT
3rd STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA
TRACT 215, LOT 12, ARB 1 & 2

Dear Mr. Evans:

In accordance with your authorization of our proposal dated December 15, 2017, we have performed a geotechnical investigation for the proposed mixed-use development located at the southeast corner of 3rd Street and Fairfax Avenue in the City of Los Angeles, California. The accompanying report presents the findings of our study, and our conclusions and recommendations pertaining to the geotechnical aspects of proposed design and construction. Based on the results of our investigation, it is our opinion that the site can be developed as proposed, provided the recommendations of this report are followed and implemented during design and construction.

If you have any questions regarding this report, or if we may be of further service, please contact the undersigned.

Very truly yours,

GEOCON WEST, INC.

REGISTERED PROFESSIONAL ENGINEER
JELISA THOMAS ADAMS
GE3092
GEOTECHNICAL
STATE OF CALIFORNIA

PROFESSIONAL GEOLOGIST
SUSAN FRANZEN KIRKGARD
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Raymond Antoine	Jelisa Thomas Adams	Susan F. Kirkgard
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(EMAIL) Addressee

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GEOTECHNICAL INVESTIGATION

1. PURPOSE AND SCOPE

This report presents the results of a geotechnical investigation for the proposed mixed-use development located at the southeast corner of 3rd Street and Fairfax Avenue in the City of Los Angeles, California (see Vicinity Map, Figure 1). The purpose of the investigation was to evaluate subsurface soil and geologic conditions underlying the site and, based on conditions encountered, to provide conclusions and recommendations pertaining to the geotechnical aspects of design and construction.

The scope of this investigation included review of a previous geotechnical investigation report for the site (Krazan & Associates, Inc., 2017), a site reconnaissance, field exploration, laboratory testing, engineering analysis, and the preparation of this report. The site was explored on January 2 and 3, 2018, by excavating six 8-inch diameter borings to depths ranging from approximately 15½ to 100½ feet below the existing ground surface utilizing a truck-mounted hollow-stem auger drilling machine. The approximate locations of the exploratory borings are depicted on the Site Plan (see Figure 2). A detailed discussion of the field investigation, including boring logs, is presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to determine pertinent physical and chemical soil properties. Appendix B presents a summary of the laboratory test results.

The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions. References reviewed to prepare this report are provided in the *List of References* section.

If project details vary significantly from those described herein, Geocon should be contacted to determine the necessity for review and possible revision of this report.

2. SITE AND PROJECT DESCRIPTION

The subject site is located at the southeast corner of 3rd Street and Fairfax Avenue in the City of Los Angeles, California. The site is a rectangular-shaped parcel and is currently occupied by a two-story commercial structure with a basement level and an associated asphalt-paved parking lot. The site is bounded by 3rd Street to the north, by an existing commercial development and then Fairfax Avenue to the west, by South Ogden Drive to the east, and by an alleyway and then Hancock Park Elementary School to the south. The site is relatively level, with no pronounced highs or lows. Surface water drainage at the site appears to be by sheet flow along the existing ground contours to the city streets.

Based on the information provided by the Client, it is our understanding that the existing structure will be demolished. The proposed development will consist of a mid-rise structure comprised of eight-stories of residential, retail, and parking all underlain by two levels of subterranean parking. The proposed subterranean parking levels are anticipated to extend to depths of approximately 30 to 35 feet, including foundation depths. The proposed development is depicted on the Site Plan and Cross Section (see Figures 2 and 3).

Preliminary wall and column loads were provided by Bryson Markulin Zickmantel Structural Engineers, the project structural engineers. It is anticipated that column loads will be up to 980 and 1,120 kips (dead + live loads) for the south and north portions of the project, respectively. It is anticipated that wall loads will be up to 10 kips per linear foot (dead + live loads).

Once the design phase and foundation loading configuration proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, if necessary. At this time, the report contains sufficient information to adequately inform impact analysis pursuant to the California Environmental Quality Act (CEQA). Any changes in the design, location or elevation of any structure, as outlined in this report, should be reviewed by this office. Geocon should be contacted to determine the necessity for review and possible revision of this report.

3. PRIOR INVESTIGATION

Krazan & Associates, Inc. (Krazan) performed a prior geotechnical report for the subject site titled:

> *Preliminary Geotechnical Engineering Investigation, Proposed Mixed Use Development, SEC of 3rd and Fairfax Avenue, Los Angeles, California*, prepared by Krazan & Associates, Inc., dated July 31, 2017.

The prior geotechnical study addressed the design and construction of six-stories of mixed-use space over three levels of subterranean parking, and included the adjacent parcel to the west. Krazan excavated 11 borings to depths ranging from approximately 4 to 80 feet below the ground surface. The locations of the prior borings which fall within the subject site's boundaries are shown on our Site Plan (see Figure 2). The report and boring logs do not differentiate artificial fill and native soils; therefore, it is unknown how much fill, if any, the prior borings encountered. Groundwater was encountered at depths ranging from 20 to 22 feet below the existing grade. Laboratory testing consisting of direct shear, grain size distribution, consolidation, expansion index, and corrosivity was performed. The near surface soils were found to have a medium expansion potential. Near-surface infiltration testing was also performed.

We have reviewed the report by Krazan & Associates, Inc. (2017). It is relevant, to an extent, for this report as we have reviewed the boring logs and laboratory data contained therein. However, we do not concur with the conclusions and recommendations presented therein as they prepared for a different project scope and are not applicable to the currently proposed project. Geocon assumes responsibility for the utilization

of the exploration and laboratory data, as it relates to the characteristics of the soils at the site, presented within the geotechnical report by Krazan. A copy of the prior report is provided in Appendix C.

Geocon West, Inc. is the Geotechnical Consultant of Record and will be providing all necessary geotechnical consultation, plan review, design recommendations, inspection and testing services for this project. Where differing, the recommendations presented herein supersede all previous recommendations.

4. GEOLOGIC SETTING

The site is located in the northern portion of the Los Angeles Basin, a coastal plain bounded by the Santa Monica Mountains on the north, the Elysian Hills and Repetto Hills on the northeast, the Puente Hills and Whittier Fault on the east, the Palos Verdes Peninsula and Pacific Ocean on the west and south, and the Santa Ana Mountains and San Joaquin Hills on the southeast. The basin is underlain by a deep structural depression which has been filled by both marine and continental sedimentary deposits underlain by a basement complex of igneous and metamorphic composition (Yerkes et al., 1965). Regionally, the site is located within the northern portion of the Peninsular Ranges geomorphic province. This geomorphic province is characterized by northwest-trending physiographic and geologic features such as the Newport-Inglewood Fault Zone located approximately 2.0 miles to the southwest.

5. SOIL AND GEOLOGIC CONDITIONS

Based on our field investigation and published geologic maps of the area, the site is underlain by artificial fill and Pleistocene age alluvium in the northwest portion of the site (California Geological Survey [CGS], 2012). The southeast portion of the site is underlain by artificial fill and Holocene age alluvium that is in turn underlain by Pleistocene age alluvium at depth (CGS, 2012). Detailed stratigraphic profiles are provided on the boring logs in Appendix A.

5.1 Artificial Fill

Artificial fill was encountered in our field explorations to a maximum depth of 5½ feet below existing ground surface. The artificial fill generally consists of brown dark brown or grayish brown sand, silty sand, sandy silt, and silt. The artificial fill is characterized as slightly moist and soft or very loose to loose. The fill is likely the result of past grading or construction activities at the site. Deeper fill may exist between excavations and in other portions of the site that were not directly explored.

5.2 Alluvium

Quaternary age alluvium was encountered beneath the fill. The alluvium consists of brown to dark brown, grayish brown, olive brown, light gray to dark gray, or yellowish brown to dark yellowish brown interbedded sand, sand with silt, silty sand, clayey sand, clay, clayey silt, silt, and sandy silt. The alluvial soils are primarily fine- to medium-grained, slightly moist to wet, and very loose to very dense or soft to stiff.

6. GROUNDWATER

Review of the Seismic Hazard Zone Report for the Hollywood Quadrangle (California Division of Mines and Geology [CDMG], 1998) indicates the historically highest groundwater level in the area is approximately 10 feet beneath the ground surface. Groundwater information presented in this document is generated from data collected in the early 1900's to the late 1990s. Based on current groundwater basin management practices, it is unlikely that groundwater levels will ever exceed the historic high levels.

The Los Angeles County Department of Public Works (LACDPW) has maintained various wells in the vicinity of the subject site over the past 90 years. The closest active groundwater monitoring well to the site is Well No. 2642P located approximately 0.6 mile to the north (LACDPW, 2018a). Review of the monitoring data for this well indicates monitoring data is available for the monitoring period between 1984 and 2012. During this time, the depth to groundwater has fluctuated between high and low measurements of 0 feet below the existing ground surface (measured on February 19, 1987) to 14.9 feet below the existing ground surface (measured on April 18, 1995), respectively (LACDPW, 2018a). The most recent groundwater level measurement for Well No. 2642P was measured in September 2012, and groundwater was at a depth of approximately 11.9 feet below the existing ground surface (LACDPW, 2018a).

Groundwater was encountered in borings B1, B2, B3 and B4 drilled on January 2 and 3, 2018, at depths of 30 feet, 20 feet, 27 feet, and 25 feet below the existing ground surface, respectively. Also, groundwater was encountered in the previous Krazan borings drilled at the site in June 2017, at depths ranging from 20 to 22 feet beneath the existing ground surface (Krazan, 2017). Considering the historic high groundwater level and the depth to groundwater encountered in our borings and the previous borings at the site, groundwater may be encountered during construction. Also, it is not uncommon for groundwater levels to vary seasonally or for groundwater seepage conditions to develop where none previously existed, especially in impermeable fine-grained soils which are heavily irrigated or after seasonal rainfall. In addition, recent requirements for stormwater infiltration could result in shallower seepage conditions in the immediate site vicinity. Proper surface drainage of irrigation and precipitation will be critical for future performance of the project. Preliminary recommendations for drainage are provided in the S*urface Drainage* section of this report (see Section 8.24).

7. GEOLOGIC HAZARDS

7.1 Surface Fault Rupture

The numerous faults in Southern California include active, potentially active, and inactive faults. The criteria for these major groups are based on criteria developed by the California Geological Survey (CGS, formerly known as CDMG) for the Alquist-Priolo Earthquake Fault Zone Program (CGS, 2018a). By definition, an active fault is one that has had surface displacement within Holocene time (about the last 11,700 years). A potentially active fault has demonstrated surface displacement during Quaternary time (approximately the last 1.6 million years), but has had no known Holocene movement. Faults that have not moved in the last 1.6 million years are considered inactive.

The site is not within a state-designated Alquist-Priolo Earthquake Fault Zone (CGS, 2018b; CGS, 2014b) or a city-designated Preliminary Fault Rupture Study Area (City of Los Angeles, 2018) for surface fault rupture hazards. No active or potentially active faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low. However, the site is located in the seismically active Southern California region, and could be subjected to moderate to strong ground shaking in the event of an earthquake on one of the many active Southern California faults. The faults in the vicinity of the site are shown in Figure 4, Regional Fault Map.

The closest surface trace of an active fault to the site is the Hollywood Fault located approximately 1.8 miles to the north (CGS, 2014b; CGS, 2018b). Other nearby active faults include the Newport-Inglewood Fault Zone, the Santa Monica Fault, the Raymond Fault, the Verdugo Fault, the Sierra Madre Fault Zone, and the Palos Verdes Fault Zone located approximately 2.0 miles southwest, 3.2 miles west, 8.2 miles east-northeast, 9.0 miles northeast, 15.5 miles north, and 17.3 miles southwest of the site, respectively (Ziony and Jones, 1989). The active San Andreas Fault Zone is located approximately 36 miles northeast of the site (Ziony and Jones, 1989).

Several buried thrust faults, commonly referred to as blind thrusts, underlie the Los Angeles Basin at depth. These faults are not exposed at the ground surface and are typically identified at depths greater than 3.0 kilometers. The October 1, 1987, M_w 5.9 Whittier Narrows earthquake and the January 17, 1994, M_w 6.7 Northridge earthquake were a result of movement on the Puente Hills Blind Thrust and the Northridge Thrust, respectively. These deep thrust faults and others in the Los Angeles area are not exposed at the surface and do not underlie the site at depth or present a potential surface fault rupture hazard at the site. The closest buried thrust fault to the site is the Puente Hills Blind Thrust located approximately 4 miles to east. Although this deep thrust faults and others in the Los Angeles area do not underlie the site, they are considered active features capable of generating future earthquakes that could result in moderate to significant ground shaking at the site.

7.2 Seismicity

As with all of Southern California, the site has experienced historic earthquakes from various regional faults. The seismicity of the region surrounding the site was formulated based on research of an electronic database of earthquake data. The epicenters of recorded earthquakes with magnitudes equal to or greater than 5.0 in the site vicinity are depicted on Figure 5, Regional Seismicity Map. A partial list of moderate to major magnitude earthquakes that have occurred in the Southern California area within the last 100 years is included in the following table.

LIST OF HISTORIC EARTHQUAKES

Earthquake (Oldest to Youngest)	Date of Earthquake	Magnitude	Distance to Epicenter (Miles)	Direction to Epicenter
San Jacinto-Hemet area	April 21, 1918	6.8	81	ESE
Near Redlands	July 23, 1923	6.3	64	E
Long Beach	March 10, 1933	6.4	39	SE
Tehachapi	July 21, 1952	7.5	74	NW
San Fernando	February 9, 1971	6.6	24	N
Whittier Narrows	October 1, 1987	5.9	16	E
Sierra Madre	June 28, 1991	5.8	24	ENE
Landers	June 28, 1992	7.3	110	E
Big Bear	June 28, 1992	6.4	88	E
Northridge	January 17, 1994	6.7	14	NW
Hector Mine	October 16, 1999	7.1	125	ENE

Similar to other sites in the region, the project site could be subjected to strong ground shaking in the event of an earthquake. However, this hazard is common in Southern California and the effects of ground shaking can be adequately reduced if the proposed structures are designed and constructed in conformance with current building codes and engineering practices.

7.3 Seismic Design Criteria

The following table summarizes site-specific design criteria obtained from the 2016 California Building Code (CBC; Based on the 2015 International Building Code [IBC] and ASCE 7-10), Chapter 16 Structural Design, Section 1613 Earthquake Loads. The data was calculated using the computer program *U.S. Seismic Design Maps*, provided by the USGS. The short spectral response uses a period of 0.2 second. We evaluated the Site Class based on the discussion in Section 1613.3.2 of the 2016 CBC and Table 20.3-1 of ASCE 7-10. The values presented below are for the risk-targeted maximum considered earthquake (MCE_R).

2016 CBC SEISMIC DESIGN PARAMETERS

Parameter	Value	2016 CBC Reference
Site Class	D	Section 1613.3.2
MCE_R Ground Motion Spectral Response Acceleration – Class B (short), S_S	1.944g	Figure 1613.3.1(1)
MCE_R Ground Motion Spectral Response Acceleration – Class B (1 sec), S_1	0.813g	Figure 1613.3.1(2)
Site Coefficient, F_A	1.0	Table 1613.3.3(1)
Site Coefficient, F_V	1.5	Table 1613.3.3(2)
Site Class Modified MCE_R Spectral Response Acceleration (short), S_{MS}	1.944g	Section 1613.3.3 (Eqn 16-37)
Site Class Modified MCE_R Spectral Response Acceleration – (1 sec), S_{M1}	1.220g	Section 1613.3.3 (Eqn 16-38)
5% Damped Design Spectral Response Acceleration (short), S_{DS}	1.296g	Section 1613.3.4 (Eqn 16-39)
5% Damped Design Spectral Response Acceleration (1 sec), S_{D1}	0.813g	Section 1613.3.4 (Eqn 16-40)

The table below presents the mapped maximum considered geometric mean (MCE_G) seismic design parameters for projects located in Seismic Design Categories of D through F in accordance with ASCE 7-10.

ASCE 7-10 PEAK GROUND ACCELERATION

Parameter	Value	ASCE 7-10 Reference
Mapped MCE_G Peak Ground Acceleration, PGA	0.749g	Figure 22-7
Site Coefficient, F_{PGA}	1.0	Table 11.8-1
Site Class Modified MCE_G Peak Ground Acceleration, PGA_M	0.749g	Section 11.8.3 (Eqn 11.8-1)

The Maximum Considered Earthquake Ground Motion (MCE) is the level of ground motion that has a 2 percent chance of exceedance in 50 years, with a statistical return period of 2,475 years. According to the 2016 California Building Code and ASCE 7-10, the MCE is to be utilized for the evaluation of liquefaction, lateral spreading, seismic settlements, and it is our understanding that the intent of the Building code is to maintain "Life Safety" during a MCE event. The Design Earthquake Ground Motion (DE) is the level of ground motion that has a 10 percent chance of exceedance in 50 years, with a statistical return period of 475 years.

Deaggregation of the MCE peak ground acceleration was performed using the USGS online Unified Hazard Tool, 2008 Conterminous U.S. Dynamic edition. The result of the deaggregation analysis indicates that the predominant earthquake contributing to the MCE peak ground acceleration is characterized as a 6.74 magnitude event occurring at a hypocentral distance of 6.61 kilometers from the site.

Deaggregation was also performed for the Design Earthquake (DE) peak ground acceleration, and the result of the analysis indicates that the predominant earthquake contributing to the DE peak ground acceleration is characterized as a 6.70 magnitude occurring at a hypocentral distance of 11.15 kilometers from the site.

Conformance to the criteria in the above tables for seismic design would adequately mitigate potentially significant impacts due to strong ground shaking in the event of an earthquake. Adherence to the applicable regulatory requirements for building on the site is required and minimizes the likelihood of structure collapse. Nonetheless, as with all sites in the area subject to strong ground shaking during an earthquake, this report does not constitute any kind of guarantee or assurance that serious structural damage or ground failure would not occur in the event of a large earthquake. The primary goal of seismic design is to protect life, not to avoid all damage, and compliance with applicable regulatory requirements would result in development on the site that is adequate to reduce potential impacts to people and structures to an acceptable level.

7.4 Liquefaction Potential

Liquefaction is a phenomenon in which loose, saturated, relatively cohesionless soil deposits lose shear strength during strong ground motions. Primary factors controlling liquefaction include intensity and duration of ground motion, gradation characteristics of the subsurface soils, in-situ stress conditions, and the depth to groundwater. Liquefaction is typified by a loss of shear strength in the liquefied layers due to rapid increases in pore water pressure generated by earthquake accelerations.

The current standard of practice, as outlined in the "Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California" and "Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California" requires liquefaction analysis to a depth of 50 feet below the lowest portion of the proposed structure. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

The State of California Seismic Hazard Zone Map for the Hollywood Quadrangle (CGS, 2014b; CDMG, 1999) indicates that the site is not located in an area designated as having a potential for liquefaction. In addition, a review of the County of Los Angeles Safety Element (Leighton, 1990) indicates that the site is not located within an area identified as having a potential for liquefaction. Based on these considerations, as well as the relatively dense and well-consolidated nature of the soils at and below the depth of proposed construction, it is our opinion that the potential for liquefaction and associated ground deformations beneath the site is very low.

7.5 Slope Stability

The topography at the site is relatively level and the topography in the immediate site vicinity slopes gently to the west-southwest. The site is not located within a City of Los Angeles Hillside Grading Area or a Hillside Ordinance Area (City of Los Angeles, 2018). The County of Los Angeles Safety Element (Leighton, 1990), indicates the site is not within an area identified as a "hillside" area or an area having a potential for slope instability. Additionally, the site is not within an area identified as having a potential for seismic slope instability (CDMG, 1999, CGS, 2014b). There are no known landslides near the site, nor is the site in the path of any known or potential landslides. Therefore, the potential for slope stability hazards to adversely affect the proposed development is considered low.

7.6 Earthquake-Induced Flooding

Earthquake-induced flooding is inundation caused by failure of dams or other water-retaining structures due to earthquakes. The Los Angeles County Safety Element (Leighton, 1990) indicates that the site is located within the Mullholland Dam inundation area. However, this reservoir, as well as others in California, are continually monitored by various governmental agencies (such as the State of California Division of Safety of Dams and the U.S. Army Corps of Engineers) to guard against the threat of dam failure. Current design, construction practices, and ongoing programs of review, modification, or total reconstruction of existing dams are intended to ensure that all dams are capable of withstanding the maximum considered earthquake (MCE) for the site. Therefore, the potential for inundation at the site as a result of an earthquake-induced dam failure is considered low.

7.7 Tsunamis, Seiches, and Flooding

The site is not located within a coastal area. Therefore, tsunamis are not considered a significant hazard at the site.

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Therefore, flooding resulting from a seismically-induced seiche is considered unlikely.

The site is within an area of minimal flooding (Zone X) as defined by the Federal Emergency Management Agency (FEMA, 2018: LACDPW, 2018b).

7.8 Oil Fields & Methane Potential

Based on a review of the California Division of Oil, Gas and Geothermal Resources (DOGGR) Well Finder Website, the site is located within the Salt Lake Oil Field (DOGGR, 2018). The nearest well to the site is the Chevron USA Well Number 99, a plugged oil and gas production well, located within the northern portion of the site (DOGGR, 2018). Due to the voluntary nature of record reporting by the oil well drilling companies, wells may be improperly located or not shown on the location map and other undocumented wells could be encountered during construction. The Chevron USA well, and any wells encountered during construction, will need to be properly abandoned in accordance with the current requirements of the DOGGR.

The site is located within the boundaries of a city-designated Methane Zone (City of Los Angeles, 2018). Prior to approval of the proposed project, the City of Los Angeles will require a site-specific methane study be performed to evaluate the potential for methane and other volatile gases to impact the proposed development. We recommend that a qualified methane consultant be retained to perform the study and provide mitigation measures as necessary.

7.9 Subsidence

Subsidence occurs when a large portion of land is displaced vertically, usually due to the withdrawal of groundwater, oil, or natural gas. Soils that are particularly subject to subsidence include those with high silt or clay content. The site is not located within an area of known on-going ground subsidence. No large-scale extraction of groundwater, gas, oil, or geothermal energy is occurring or planned at the site or in the general site vicinity. Therefore, the potential for ground subsidence to adversely impact the site is considered low.

8. CONCLUSIONS AND RECOMMENDATIONS

8.1 General

8.1.1 It is our opinion that neither soil nor geologic conditions were encountered on the site during the investigation that would preclude the construction of the proposed development provided that construction adheres to applicable regulatory requirements and the recommendations presented herein implemented during design and construction.

8.1.2 Up to 5½ feet of existing artificial fill was encountered during the site investigation. The existing fill encountered is believed to be the result of past grading and construction activities at the site. Deeper fill may exist in other areas of the site that were not directly explored. Future demolition of the existing commercial structure and basement level which occupies the site will likely disturb the upper few feet of soil below those existing improvements. The existing fill and site soils are suitable for re-use as engineered fill provided the recommendations in the *Grading* section of this report are followed (see Section 8.6).

8.1.3 Excavations for the subterranean level are anticipated to penetrate through the existing artificial fill and expose alluvial soils throughout the excavation bottom.

8.1.4 Groundwater was encountered during current and prior site exploration at depths ranging from 20 to 30 feet below existing ground surface. Excavation for construction of the proposed subterranean levels is anticipated to extend to depths of 30 to 35 feet, including foundation excavations, and/or methane systems. Based on these considerations, groundwater may be encountered during construction and the contractor should be prepared for these conditions.

8.1.5 The historic high groundwater level beneath the site is reported as 10 feet below the existing ground surface. If the subterranean portion of the structure which extends below the historic high groundwater level is not designed for full hydrostatic pressure, a permanent dewatering system will be required to relieve and mitigate the water pressure. Recommendations for *Permanent Dewatering* are provided in Section 8.3 of this report.

8.1.6 If a permanent dewatering system is not implemented, the structure must be designed for hydrostatic pressure based on the historic high groundwater level of 10 feet below the ground surface. The hydrostatic design will result in uplift forces on the structure that must be resisted by counterweight or structural design measures. The recommended floor slab uplift pressure to be used in design would be 62.4(H) in units of pounds per square foot (psf), where "H" is the height of the water above the bottom of the foundation in feet. If the proposed structure does not provide sufficient dead load to resist the buoyant forces, then recommendations for uplift mitigation will be required. Such recommendations, if deemed necessary, will be provided under separate cover as the design becomes more finalized.

8.1.7 Based on the depth of proposed construction, the potential for a methane mitigation system and potential hydrostatic pressures, it is recommended that proposed structure be supported on a reinforced concrete mat foundation system. A mat foundation system is anticipated to be a very cost-effective foundation system for this project since the pad can remain relatively flat which allows for more efficient construction of waterproofing or a methane system, saving a significant amount of time and labor. In order to minimize differential settlement between the ramp, ramp walls, and basement level, it is recommended that the ramp and ramp walls for the subterranean parking garage be structurally supported on the mat foundation. Recommendations for the design of a mat foundation system are provided in Section 8.8 of this report.

8.1.8 Once proposed building loads become available and subterranean elevations are established, additional analyses will be required to evaluate the anticipated total and differential settlements between the foundation elements. Updated foundation design recommendations will be provided as necessary in an addendum report.

8.1.9 Excavation for construction of the proposed subterranean levels is anticipated to extend to depths of 30 to 35 feet, including foundation excavations, and/or methane systems. Due to the depth of the excavation and the proximity to the property lines, city streets and adjacent offsite structures and improvements, excavation of the proposed subterranean level will require sloping and/or shoring in order to provide a stable excavation. Where shoring is required it is recommended that a soldier pile shoring system be utilized. In addition, where the proposed excavation will be deeper than and adjacent to an offsite structure, the proposed shoring should be designed to resist the surcharge imposed by the adjacent offsite structure. Recommendations for shoring are provided in Section 8.18 of this report.

8.1.10 Due to the nature of the proposed design and intent for a subterranean level, waterproofing of subterranean walls and slabs is suggested. Particular care should be taken in the design and installation of waterproofing to avoid moisture problems, or actual water seepage into the structure through any normal shrinkage cracks which may develop in the concrete walls, floor slab, foundations and/or construction joints. The design and inspection of the waterproofing is not the responsibility of the geotechnical engineer. A waterproofing consultant should be retained in order to recommend a product or method, which would provide protection to subterranean walls, floor slabs and foundations.

8.1.11 Based on the historic and current groundwater levels, as well as the footprint and depth of proposed construction, infiltration of stormwater is not recommended for this project. It is suggested that stormwater be retained, filtered and discharged in accordance with the requirements of the local governing agency.

8.1.12 Any changes in the design, location or elevation, as outlined in this report, should be reviewed by this office. Once the foundation loading configuration and design elevations for proposed structure proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, as necessary. Based on the final foundation loading configurations and building elevations, the potential for settlement should be reevaluated by this office.

8.1.13 The most recent ASTM standards apply to this project and must be utilized, even if older ASTM standards are indicated in this report.

8.2 Temporary Dewatering

8.2.1 Groundwater was encountered during current and prior site exploration at depths ranging from 20 to 30 feet below existing ground surface. Based on the conditions encountered at the time of exploration, groundwater may be encountered during construction activities. The depth to groundwater at the time of construction can be further verified during initial dewatering well or shoring pile installation. If groundwater is present above the depth of the proposed foundation excavation bottom, temporary dewatering will be necessary to maintain a safe working environment during excavation and construction activities.

8.2.2 It is recommended that a qualified dewatering consultant be retained to design the dewatering system and determine the design flow rates for dewatering. Temporary dewatering may consist of perimeter wells with interior well points as well as gravel filled trenches (French drains) placed adjacent to the shoring system and interior of the site. The number and locations of the wells or French drains can be adjusted during excavation activities as necessary to collect and control any encountered seepage. The French drains will then direct the collected seepage to a sump where it will be pumped out of the excavation.

8.2.3 The embedment of perimeter shoring piles should be deepened as necessary to take into account any required excavations necessary to place an adjacent French drain system, or sub-slab drainage system, should it be deemed necessary. It is not anticipated that a perimeter French drain will be more than 24 inches in depth below the proposed excavation bottom. If a French drain is to remain on a permanent basis, it must be lined with filter fabric to prevent soil migration into the gravel.

8.3 Permanent Dewatering

8.3.1 If any portion of the proposed structure extends below the historic high groundwater depth and is not designed for full hydrostatic pressure and buoyancy, a permanent dewatering system will be required to relieve and mitigate the water pressure. The historically highest groundwater is reported to be at a depth of 10 feet below the existing ground surface. If permanent dewatering is to be utilized, a sub-slab drainage system consisting of perforated pipes placed in gravel-filled trenches may be installed beneath the subterranean slab-on-grade to intercept and control groundwater. A separate retaining wall drainage system is also required around the perimeter of the structure. The sub-slab drainage system can be combined with the perimeter retaining wall drainage system provided backflow valves are installed at the base of the wall drainage system.

8.3.2 A typical permanent sub-slab drainage system would consist of a 12-inch thick layer of ¾-inch gravel that is placed upon a layer of filter fabric (Miami 500X or equivalent), and vibrated to a dense state. Subdrain pipes leading to sump areas, provided with automatic pumping units, should drain the gravel layer. The drain lines should consist of perforated pipe, placed with perforations down, in trenches that are at least 6 inches below the gravel layer. The excavation bottom, as well as the trench bottoms should be lined with filter fabric prior to placing and compacting gravel. The trenches should be spaced approximately 40 feet apart at most, within the interior, and should extend along to the perimeter of the building. Subsequent to the installation of the drainage system, the waterproofing system and building slab may then be placed on the densified gravel. A mud- or rat-slab may be placed above and below the waterproofing system for protection during placement of rebar and mat slab construction.

8.3.3 Recommendations for design flow rates for the permanent dewatering system should be determined by a qualified contractor or dewatering consultant.

8.4 Soil and Excavation Characteristics

8.4.1 The in-situ soils can be excavated with moderate effort using conventional excavation equipment. Some caving should be anticipated in unshored excavations, especially where granular and/or saturated soils are encountered.

8.4.2 It is the responsibility of the contractor to ensure that all excavations and trenches are properly shored and maintained in accordance with applicable OSHA rules and regulations to maintain safety and maintain the stability of existing adjacent improvements.

8.4.3 All onsite excavations must be conducted in such a manner that potential surcharges from existing structures, construction equipment, and vehicle loads are resisted. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation

or vehicle load. Penetrations below this 1:1 projection will require special excavation measures such as sloping or shoring. Excavation recommendations are provided in the *Temporary Excavations* section of this report (see Section 8.17).

8.4.4 The upper 5 feet of existing site soils encountered during this investigation are considered to have a "very low" expansive potential (EI = 17); and are classified as "non-expansive" based on the 2016 California Building Code (CBC) Section 1803.5.3. The recommendations presented herein assume that foundations and slabs at the ground surface will derive support in these materials. Furthermore, based on depth of the proposed subterranean levels, the proposed structure would not be prone to the effects of expansive soils.

8.5 Minimum Resistivity, pH, and Water-Soluble Sulfate

8.5.1 Potential of Hydrogen (pH) and resistivity testing as well as chloride content testing were performed on representative samples of soil to generally evaluate the corrosion potential to surface utilities. The tests were performed in accordance with California Test Method Nos. 643 and 422 and indicate that the soils are considered "corrosive" with respect to corrosion of buried ferrous metals on site. The results are presented in Appendix B (Figure B8) and should be considered for design of underground structures.

8.5.2 Laboratory tests were performed on representative samples of the site materials to measure the percentage of water-soluble sulfate content. Results from the laboratory water-soluble sulfate tests are presented in Appendix B (Figure B8) and indicate that the on-site materials possess "negligible" sulfate exposure to concrete structures as defined by 2016 CBC Section 1904 and ACI 318-11 Sections 4.2 and 4.3.

8.5.3 Geocon West, Inc. does not practice in the field of corrosion engineering and mitigation. If corrosion sensitive improvements are planned, it is recommended that a corrosion engineer be retained to evaluate corrosion test results and incorporate the necessary precautions to avoid premature corrosion of buried metal pipes and concrete structures in direct contact with the soils.

8.6 Grading

8.6.1 Grading is anticipated to include excavation of site soils for the subterranean level, foundations, and utility trenches, as well as placement of backfill for walls, ramps, and trenches.

8.6.2 Earthwork should be observed, and compacted fill tested by representatives of Geocon West, Inc. The existing fill and alluvial soil encountered during exploration is suitable for re-use as engineered fill, provided any encountered oversize material (greater than 6 inches) and any encountered deleterious debris are removed.

8.6.3 A preconstruction conference should be held at the site prior to the beginning of grading operations with the owner, contractor, civil engineer, geotechnical engineer, and building official in attendance. Special soil handling requirements can be discussed at that time.

8.6.4 Grading should commence with the removal of all existing vegetation and existing improvements from the area to be graded. Deleterious debris such as wood and root structures should be exported from the site and should not be mixed with the fill soils. Asphalt and concrete should not be mixed with the fill soils unless approved by the Geotechnical Engineer. All existing underground improvements planned for removal should be completely excavated and the resulting depressions properly backfilled in accordance with the procedures described herein. Once a clean excavation bottom has been established it must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.) and the City of Los Angeles Inspector.

8.6.5 Based on the depth of proposed construction, the potential for a methane mitigation system, and potential hydrostatic pressures, it is recommended that proposed structure be supported on a reinforced concrete mat foundation system deriving support in competent alluvial soils found at and below the proposed excavation bottom. For the purposes of this report, the foundation depth has been assumed to be 35 feet below the existing ground surface. Foundations should be deepened as necessary to extend into satisfactory soils and must be observed and approved by the Geotechnical Engineer (a representative of Geocon), prior to placing steel or concrete.

8.6.6 Due to the potential for high-moisture content soils at the excavation bottom, or if construction is performed during the rainy season and the excavation bottom becomes saturated, stabilization measures may have to be implemented to prevent excessive disturbance the excavation bottom. Should this condition exist, rubber tire equipment should not be allowed in the excavation bottom until it is stabilized or extensive soil disturbance could result. Track mounted equipment should be considered to minimize disturbance to the soils.

8.6.7 Where permanent dewatering is not used, an alternative method of subgrade stabilization would consist of introducing a thin lift of 3 to 6-inch diameter crushed angular rock into the soft excavation bottom. The use of crushed concrete will also be acceptable. The crushed rock should be spread thinly across the excavation bottom and pressed into the soils by track rolling or wheel rolling with heavy equipment. It is very important that voids between the rock fragments are not created so the rock must be thoroughly pressed or blended into the soils. All subgrade soils must be properly compacted and proof-rolled in the presence of the Geotechnical Engineer (a representative of Geocon West, Inc.).

8.6.8 If a permanent dewatering system is to be installed, subgrade stabilization may be accomplished by placing a 1-foot-thick layer of washed, angular 3/4-inch gravel atop a stabilization fabric (Mirafi 500X or equivalent), subsequent to subgrade approval. This procedure should be conducted in sections until the entire excavation bottom has been blanketed by fabric and gravel. Heavy equipment may operate upon the gravel once it has been placed. The gravel should be compacted to a dense state utilizing a vibratory drum roller. The placement of gravel at the subgrade level should be coordinated with the temporary or permanent dewatering of the site. The gravel and fabric system will function as both a permeable material for any necessary dewatering procedures as well as a stable material upon which heavy equipment may operate. It is recommended that the contractor meet with the Geotechnical Engineer to discuss this procedure in more detail.

8.6.9 The City of Los Angeles Department of Building and Safety requires a minimum compactive effort of 95 percent of the laboratory maximum dry density in accordance with ASTM D 1557 (latest edition) where the soils to be utilized in the fill have less than 15 percent finer than 0.005 millimeters. Soils with more than 15 percent finer than 0.005 millimeters may be compacted to 90 percent of the laboratory maximum dry density in accordance with ASTM D 1557 (latest edition). Based on the soils encountered during this investigation, it is anticipated that 90 percent relative compaction will be required. All fill and backfill soils should be placed in horizontal loose layers approximately 6 to 8 inches thick, moisture conditioned to optimum moisture content, and properly compacted to the required degree of compaction in accordance with ASTM D 1557 (latest edition).

8.6.10 Prior to construction of exterior slabs, the upper 12 inches of the subgrade should be moisture conditioned to optimum moisture content and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D1557 (latest edition).

8.6.11 Although not anticipated for this project, all imported fill shall be observed, tested, and approved by Geocon West, Inc. prior to bringing soil to the site. Rocks larger than 6 inches in diameter shall not be used in the fill. If necessary, import soils used as structural fill should have an expansion index less than 20 and soil corrosivity properties that are equally or less detrimental to that of the existing onsite soils (see Figure B8).

8.6.12 Utility trenches should be properly backfilled in accordance with the requirements of the Green Book (latest edition). The pipe should be bedded with clean sands (Sand Equivalent greater than 30) to a depth of at least 1 foot over the pipe, and the bedding material must be inspected and approved in writing by the Geotechnical Engineer (a representative of Geocon). The use of gravel is not acceptable unless used in conjunction with filter fabric to prevent the gravel from having direct contact with soil. The remainder of the trench backfill may be derived from onsite soil or approved import soil, compacted as necessary, until the required compaction is

obtained. The use of minimum 2-sack slurry is also acceptable as backfill (see Section 8.7). Prior to placing any bedding materials or pipes, the excavation bottom must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon).

8.6.13 All trench and foundation excavation bottoms must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon), prior to placing bedding materials, fill, steel, gravel or concrete.

8.7 Controlled Low Strength Material (CLSM)

8.7.1 Controlled Low Strength Material (CLSM) may be utilized in lieu of compacted soil as engineered fill where approved in writing by the Geotechnical Engineer. Where utilized within the City of Los Angeles use of CLSM is subject to the following requirements:

Standard Requirements

1. CLSM shall be ready-mixed by a City of Los Angeles approved batch plant;
2. CLSM shall not be placed on uncertified fill, on incompetent natural soil, nor below water;
3. CLSM shall not be placed on a sloping surface with a gradient steeper than 5:1 (horizontal to vertical);
4. Placement of the CLSM shall be under the continuous inspection of a concrete deputy inspector;
5. The excavation bottom shall be accepted by the soil engineer and the City Inspector prior to placing CLSM.

Requirements for CLSM that will be used for support of footings

1. The cement content of the CLSM shall not be less than 188 pounds per cubic yard (min. 2 sacks);
2. The excavation bottom must be level, cleaned of loose soils and approved in writing by Geocon prior to placement of the CLSM;
3. The ultimate compressive strength of the CLSM shall be no less than 100 pounds per square inch (psi) when tested on the 28th-day per ASTM D4832 (latest edition), Standard Test Method for Preparation and Testing of Controlled Low Strength Material Test Cylinders. Compression testing will be performed in accordance with ASTM C39 and City of Los Angeles requirements;
4. Samples of the CLSM will be collected during placement, a minimum of one test (two cylinders) for each 50 cubic yards or fraction thereof;

5. Overexcavation for CLSM placement shall extend laterally beyond the footprint of any proposed footings as required for placement of compacted fill, unless justified otherwise by the soil engineer that footings will have adequate vertical and horizontal bearing capacity.

8.8 Mat Foundation Design - General

8.8.1 Based on the depth of proposed construction, the potential for a methane mitigation system, and potential hydrostatic pressures, it is recommended that proposed structure be supported on a reinforced concrete mat foundation system. A mat foundation system is anticipated to be a very cost-effective foundation system for this project since the pad can remain relatively flat which allows for more efficient construction of waterproofing or a methane system, saving a significant amount of time and labor.

8.8.2 Foundations should be deepened as necessary to extend into satisfactory soils and must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.).

8.8.3 It is anticipated that the mat foundation will impart an average pressure of less than 2,500 psf, with locally higher pressures up to 5,000 psf. The use of a maximum allowable bearing pressure of 5,000 psf is feasible and anticipated differential settlements should be evaluated once the bearing pressure distribution beneath the mat foundation has been evaluated. The allowable bearing pressure may be increased by up to one-third for transient loads due to wind or seismic forces.

8.8.4 It is recommended that a modulus of subgrade reaction of 100 pounds per cubic inch (pci) be utilized for the design of the mat foundation bearing in the undisturbed alluvial soils found at the excavation bottom. If the subgrade is stabilized in accordance with the recommendations in the grading section of this report a modulus of subgrade reaction of 200 pci may be utilized. This value is a unit value for use with a 1-foot square footing. The modulus should be reduced in accordance with the following equation when used with larger foundations:

$$K_R = K\left[\frac{B+1}{2B}\right]^2$$

where: K_R = reduced subgrade modulus
K = unit subgrade modulus
B = foundation width (in feet)

8.8.5 The thickness of and reinforcement for the mat foundation should be designed by the project structural engineer.

8.8.6 If the proposed structure is to be designed for full hydrostatic pressure, the recommended floor slab uplift pressure to be used in design would be 62.4(H) in units of psf, where "H" is the height of the water above the bottom of the mat foundation in feet. For design purposes the water table may be assumed to be 10 feet below the existing ground surface. If the proposed structure does not provide sufficient dead load to resist the buoyant forces then uplift mitigation will be required. Such recommendations, if deemed necessary, will be provided under separate cover as the design becomes more finalized.

8.8.7 For seismic design purposes, a coefficient of friction of 0.3 may be utilized between the concrete mat and alluvium or engineered fill without a moisture barrier; 0.45 may be utilized between the concrete mat and stabilized subgrade without a moisture barrier; and 0.15 for slabs underlain by a moisture barrier.

8.8.8 No special subgrade presaturation is required prior to placement of concrete. However, the slab and foundation subgrade should be sprinkled as necessary; to maintain a moist condition as would be expected in any concrete placement.

8.8.9 Waterproofing of subterranean walls and slabs is recommended for this project for any portions of the structure that will be constructed below the groundwater table. Particular care should be taken in the design and installation of waterproofing to avoid moisture problems, or actual water seepage into the structure through any normal shrinkage cracks which may develop in the concrete walls, floor slab, foundations and/or construction joints. The design and inspection of the waterproofing is not the responsibility of the geotechnical engineer. A waterproofing consultant should be retained in order to recommend a product or method, which would provide protection to subterranean walls, floor slabs and foundations.

8.8.10 Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of the methane system, reinforcing steel and concrete to verify that the excavations and exposed soil conditions are consistent with those anticipated. If unanticipated soil conditions are encountered, foundation modifications may be required.

8.8.11 This office should be provided a copy of the final construction plans so that the excavation recommendations presented herein could be properly reviewed and revised if necessary.

8.9 Foundation Settlement

8.9.1 The maximum settlement for a reinforced concrete mat foundation designed with the maximum allowable bearing value of 5,000 psf and deriving support in the recommended bearing materials is expected to be less than 1 inch and occur below the heaviest loaded structural element. A majority of the settlement of the foundation system is expected to occur on initial application of loading; however, minor additional settlements are expected within the first twelve months. The anticipated settlement includes consideration of the removal of 35 feet of soil overburden. Differential settlement between the center and corner of the mat is expected to be less than ½ inch.

8.9.2 Once the design and foundation loading configurations for the proposed structures proceeds to a more finalized plan, the estimated settlements presented in this report should be reviewed and revised, if necessary. Foundation dimensions and allowable bearing pressures may require adjustment to minimize potential differential settlements. The potential for settlement should be reevaluated by this office.

8.10 Lateral Design

8.10.1 Resistance to lateral loading may be provided by friction acting at the base of foundations, slabs and by passive earth pressure. An allowable coefficient of friction of 0.3 may be used with the dead load forces in the competent alluvial soils or in properly compacted engineered fill.

8.10.2 Passive earth pressure for the sides of foundations poured against undisturbed alluvium may be computed as an equivalent fluid having a density of 100 pounds per cubic foot (pcf) with a maximum earth pressure of 1,000 psf (these values have been adjusted for buoyant forces). When combining passive and friction for lateral resistance, the passive component should be reduced by one-third.

8.11 Exterior Concrete Slabs-on-Grade

8.11.1 Exterior slabs, not subject to traffic loads, should be at least 4 inches thick and reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions, positioned near the slab midpoint. Prior to construction of slabs, the upper 12 inches of subgrade should be moistened to optimum moisture content and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition). Crack control joints should be spaced at intervals not greater than 12 feet and should be constructed using saw-cuts or other methods as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. The project structural engineer should design construction joints as necessary.

8.11.2 The moisture content of the slab subgrade should be maintained and sprinkled as necessary to maintain a moist condition as would be expected in any concrete placement.

8.11.3 The recommendations of this report are intended to reduce the potential for cracking of slabs due to settlement. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade may exhibit some cracking due to minor soil movement and/or concrete shrinkage. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.

8.12 Retaining Walls Design

8.12.1 The recommendations presented below are generally applicable to the design of rigid concrete or masonry retaining walls having a maximum height of 30 feet. In the event that walls significantly higher than 30 feet are planned, Geocon should be contacted for additional recommendations.

8.12.2 Retaining wall foundations may be designed in accordance with the recommendations provided in the *Mat Foundation Design* section of this report (see Section 8.8).

8.12.3 Retaining walls with a level backfill surface that are not restrained at the top should be designed utilizing a triangular distribution of pressure (active pressure). Restrained walls are those that are not allowed to rotate more than 0.001H (where H equals the height of the retaining portion of the wall in feet) at the top of the wall. Where walls are restrained from movement at the top, walls may be designed utilizing a triangular distribution of pressure (at-rest pressure). The table below presents recommended pressures to be used in retaining wall design, assuming that proper drainage will be maintained. Calculation of the recommended retaining wall pressures is provided as Figure 6.

RETAINING WALL WITH LEVEL BACKFILL SURFACE

HEIGHT OF RETAINING WALL (Feet)	ACTIVE PRESSURE EQUIVALENT FLUID PRESSURE (Pounds Per Cubic Foot)	AT-REST PRESSURE EQUIVALENT FLUID PRESSURE (Pounds Per Cubic Foot)
Up to 30	51	59

8.12.4 The wall pressures provided above assume that the proposed retaining walls will support relatively undisturbed alluvial soils. If sloping techniques are to be utilized for construction of proposed walls, which would result in a wedge of engineered fill behind the retaining walls, revised earth pressures may be required. This should be evaluated once the use of sloping measures is established and once the geotechnical characteristics of the engineered backfill soils can be further evaluated.

8.12.5 The wall pressures provided above assume that the retaining wall will be properly drained preventing the buildup of hydrostatic pressure. If retaining wall drainage is not implemented, the equivalent fluid pressure to be used in design of undrained walls is 90 pcf. The value includes hydrostatic pressures plus buoyant lateral earth pressures.

8.12.6 Additional active pressure should be added for a surcharge condition due to sloping ground, vehicular traffic, or adjacent structures. Recommendations for the incorporation of surcharges are provided in section 8.23 of this report. Once the design becomes more finalized, an addendum letter can be prepared revising recommendations and addressing specific surcharge conditions throughout the project, if necessary.

8.12.7 In addition to the recommended earth pressure, the upper 10 feet of the subterranean wall adjacent to the street and parking lot should be designed to resist a uniform lateral pressure of 100 psf, acting as a result of an assumed 300 psf surcharge behind the walls due to normal street traffic. If the traffic is kept back at least 10 feet from the subterranean walls, or a distance from the subterranean walls equal to at least half the wall height, whichever is greater, the traffic surcharge may be neglected.

8.12.8 Seismic lateral forces should be incorporated into the design as necessary, and recommendations for seismic lateral forces are presented below.

8.13 Dynamic (Seismic) Lateral Forces

8.13.1 The structural engineer should determine the seismic design category for the project in accordance with Section 1613 of the CBC. If the project possesses a seismic design category of D, E, or F, proposed retaining walls in excess of 6 feet in height should be designed with seismic lateral pressure (Section 1803.5.12 of the 2016 CBC).

8.13.2 A seismic load of 12 pcf should be used for design of walls that support more than 6 feet of backfill in accordance with Section 1803.5.12 of the 2016 CBC. The seismic load is applied as an equivalent fluid pressure along the height of the wall and the calculated loads result in a maximum load exerted at the base of the wall and zero at the top of the wall. This seismic load should be applied in addition to the active earth pressure. The earth pressure is based on half of two thirds of PGA_M calculated from ASCE 7-10 Section 11.8.3.

8.14 Retaining Wall Drainage

8.14.1 Retaining walls should be provided with a drainage system. At the base of the drain system, a subdrain covered with a minimum of 12 inches of gravel should be installed, and a compacted fill blanket or other seal placed at the surface (see Figure 7). The clean bottom and subdrain pipe, behind a retaining wall, should be observed by the Geotechnical Engineer (a representative of Geocon), prior to placement of gravel or compacting backfill.

8.14.2 As an alternative, a plastic drainage composite such as Miradrain or equivalent may be installed in continuous, 4-foot wide columns along the entire back face of the wall, at 8 feet on center. The top of these drainage composite columns should terminate approximately 18 inches below the ground surface, where either hardscape or a minimum of 18 inches of relatively cohesive material should be placed as a cap (see Figure 8). These vertical columns of drainage material would then be connected at the bottom of the wall to a collection panel or a 1-cubic-foot rock pocket drained by a 4-inch subdrain pipe.

8.14.3 Subdrainage pipes at the base of the retaining wall drainage system should outlet to an acceptable location via controlled drainage structures. Drainage should not be allowed to flow uncontrolled over descending slopes.

8.14.4 Moisture affecting below grade walls is one of the most common post-construction complaints. Poorly applied or omitted waterproofing can lead to efflorescence or standing water. Particular care should be taken in the design and installation of waterproofing to avoid moisture problems, or actual water seepage into the structure through any normal shrinkage cracks which may develop in the concrete walls, floor slab, foundations and/or construction joints. The design and inspection of the waterproofing is not the responsibility of the geotechnical engineer. A waterproofing consultant should be retained in order to recommend a product or method, which would provide protection to subterranean walls, floor slabs and foundations.

8.15 Elevator Pit Design

8.15.1 The elevator pit slab and retaining wall should be designed by the project structural engineer. Elevator pit walls may be designed in accordance with the recommendations in the *Mat Foundation Design* and *Retaining Wall Design* sections of this report (see Sections 8.8 and 8.12).

8.15.2 Additional active pressure should be added for a surcharge condition due to sloping ground, vehicular traffic or adjacent foundations and should be designed for each condition as the project progresses.

8.15.3 If retaining wall drainage is to be provided, the drainage system should be designed in accordance with the *Retaining Wall Drainage* section of this report (see Section 8.14).

8.15.4 It is suggested that the exterior walls and slab be waterproofed to prevent excessive moisture inside of the elevator pit. Waterproofing design and installation is not the responsibility of the geotechnical engineer.

8.16 Elevator Piston

8.16.1 If a plunger-type elevator piston is installed for this project, a deep drilled excavation will be required. It is important to verify that the drilled excavation is not situated immediately adjacent to a foundation or shoring pile, or the drilled excavation could compromise the existing foundation or pile support, especially if the drilling is performed subsequent to the foundation or pile construction.

8.16.2 Casing will likely be required in the drilled excavation. The contractor should be prepared to use casing and should have it readily available at the commencement of drilling activities. The contractor should also be prepared to mitigate buoyant forces during installation of the piston casing. Continuous observation of the drilling and installation of the elevator piston by the Geotechnical Engineer (a representative of Geocon West, Inc.) is required.

8.16.3 The annular space between the piston casing and drilled excavation wall should be filled with a minimum of 1½-sack slurry pumped from the bottom up. As an alternative, pea gravel may be utilized. The use of soil to backfill the annular space is not acceptable.

8.17 Temporary Excavations

8.17.1 Excavations on the order of 35 feet in height may be required for excavation and construction of the proposed subterranean levels. The excavations are expected to expose artificial fill and alluvial soils, which may be subject to caving where granular or saturated soils are exposed. Vertical excavations up to 5 feet in height may be attempted where not surcharged by adjacent traffic or structures.

8.17.2 Vertical excavations greater than 5 feet or where surcharged by existing structures will require sloping or shoring measures in order to provide a stable excavation. Where sufficient space is available, temporary unsurcharged embankments could be sloped back at a uniform 1:1 slope gradient or flatter up to a maximum of 10 feet in height. A uniform slope does not have a vertical portion. Where space is limited, shoring measures will be required. *Shoring* data is provided in Section 8.18 of this report.

8.17.3 Where temporary construction slopes are utilized, the top of the slope should be barricaded to prevent vehicles and storage loads at the top of the slope within a horizontal distance equal to the height of the slope. If the temporary slopes are to be maintained during the rainy season, berms are suggested along the tops of the slopes where necessary to prevent runoff water from entering the excavation and eroding the slope faces. Geocon personnel should inspect the soils exposed in the cut slopes during excavation so that modifications of the slopes can be made if variations in the soil conditions occur. All excavations should be stabilized within 30 days of initial excavation.

8.18 Shoring – Soldier Pile Design and Installation

8.18.1 The following information on the design and installation of shoring is preliminary. Review of the final shoring plans and specifications should be made by this office prior to bidding or negotiating with a shoring contractor.

8.18.2 One method of shoring would consist of steel soldier piles, placed in drilled holes and backfilled with concrete. The steel soldier piles may also be installed utilizing high frequency vibration. Where maximum excavation heights are less than 12 feet the soldier piles are typically designed as cantilevers. Where excavations exceed 12 feet or are surcharged, soldier piles may require lateral bracing utilizing drilled tie-back anchors or raker braces to maintain an economical steel beam size and prevent excessive deflection. The size of the steel beam, the need for lateral bracing, and the acceptable shoring deflection should be determined by the project shoring engineer.

8.18.3 The design embedment of the shoring pile toes must be maintained during excavation activities. The toes of the perimeter shoring piles should be deepened to take into account any required excavations necessary for foundations, methane, and/or adjacent drainage systems.

8.18.4 The proposed soldier piles may be utilized to provide a component of uplift resistance. If required to provide uplift resistance, the shoring piles must be designed as permanent piles. The uplift capacity may be taken as ⅔ of the downward frictional capacity.

8.18.5 All piles utilized for shoring can also be incorporated into a permanent retaining wall system (shotcrete wall) and should be designed in accordance with the earth pressure provided in the *Retaining Wall Design* section of this report (see Section 8.12).

8.18.6 Drilled cast-in-place soldier piles should be placed no closer than 2 diameters on center. The minimum diameter of the piles is 18 inches. Structural concrete should be used for the soldier piles below the excavation; lean-mix concrete may be employed above that level. As an alternative, lean-mix concrete may be used throughout the pile where the reinforcing consists of a wideflange section. The slurry must be of sufficient strength to impart the lateral bearing pressure developed by the wideflange section to the soil. For design purposes, an allowable passive value for the soils below the bottom plane of excavation may be assumed to be 115 psf per foot (value has been reduced for buoyant forces). The allowable passive value may be doubled for isolated piles spaced a minimum of three times the pile diameter. To develop the full lateral value, provisions should be implemented to assure firm contact between the soldier piles and the undisturbed soils. Increases in passive pressure may be available at greater depths and Geocon should be contacted to provide an updated value once a preliminary shoring design is available.

8.18.7 Groundwater was encountered during exploration and the contractor should be prepared for groundwater during pile installation. Piles placed below the water level require the use of a tremie to place the concrete into the bottom of the hole. A tremie should consist of a rigid, water-tight tube having a diameter of not less than 6 inches with a hopper at the top. The tube should be equipped with a device that will close the discharge end and prevent water from entering the tube while it is being charged with concrete. The tremie should be supported so as to permit free movement of the discharge end over the entire top surface of the work and to permit rapid lowering when necessary to retard or stop the flow of concrete. The discharge end should be closed at the start of the work to prevent water entering the tube and should be entirely sealed at all times, except when the concrete is being placed. The tremie tube should be kept full of concrete. The flow should be continuous until the work is completed and the resulting concrete seal should be monolithic and homogeneous. The tip of the tremie tube should always be kept about 5 feet below the surface of the concrete and definite steps and safeguards should be taken to insure that the tip of the tremie tube is never raised above the surface of the concrete.

8.18.8 A special concrete mix should be used for concrete to be placed below water. The design should provide for concrete with an unconfined compressive strength psi of 1,000 psi over the initial job specification. An admixture that reduces the problem of segregation of paste/aggregates and dilution of paste should be included. The slump should be commensurate to any research report for the admixture, provided that it should also be the minimum for a reasonable consistency for placing when water is present.

8.18.9 Casing may be required if caving may occur in the saturated soils. If casing is used, extreme care should be employed so that the pile is not pulled apart as the casing is withdrawn. At no time should the distance between the surface of the concrete and the bottom of the casing be less than 5 feet. As an alternative, piles may be vibrated into place; however, there is always a risk that excessive vibrations in sandy soils could induce settlements and distress to adjacent offsite improvements. Continuous observation of the drilling and pouring of the piles by the Geotechnical Engineer (a representative of Geocon West, Inc.), is required.

8.18.10 As an alternative, piles may be vibrated into place; however, there is always a risk that excessive vibrations in sandy soils could induce settlements and distress to adjacent offsite improvements. Continuous observation of the drilling and pouring of the piles by the Geotechnical Engineer (a representative of Geocon West, Inc.), is required.

8.18.11 If a vibratory method of solider pile installation is utilized, predrilling may be performed prior to installation of the steel beams. If predrilling is performed, it is recommended that the bore diameter be at least 2 inches smaller than the largest dimension of the pile to prevent excessive loss in the frictional component of the pile capacity. Predrilling should not be conducted below the proposed excavation bottom.

8.18.12 If a vibratory method is utilized, the owner should be aware of the potential risks associated with vibratory efforts, which typically involve inducing settlement within the vicinity of the pile which could result in a potential for damage to existing improvements in the area.

8.18.13 The level of vibration that results from the installation of the piles should not exceed a threshold where occupants of nearby structures are disturbed, despite higher vibration tolerances that a building may endure without deformation or damage. The main parameter used for vibration assessment is peak particle velocity in units of inch per second (in/sec). The acceptable range of peak particle velocity should be evaluated based on the age and condition of adjacent structures, as well as the tolerance of human response to vibration.

8.18.14 Based on Table 19 of the *Transportation and Construction Induced Vibration Guidance Manual* (Caltrans 2013), a continuous source of vibrations (ex. vibratory pile driving) which generates a maximum peak particle velocity of 0.5 in/sec is considered tolerable for modern industrial/commercial buildings and new residential structures. The Client should be aware that a lower value may be necessary if older or fragile structures are in the immediate vicinity of the site.

8.18.15 Vibrations should be monitored and record with seismographs during pile installation to detect the magnitude of vibration and oscillation experienced by adjacent structures. If the vibrations exceed the acceptable range during installation, the shoring contractor should modify the installation procedure to reduce the values to within the acceptable range. Vibration monitoring is not the responsibility of the Geotechnical Engineer.

8.18.16 Geocon does not practice in the field of vibration monitoring. If construction techniques will be implemented, it is recommended that qualified consultant be retained to provide site specific recommendations for vibration thresholds and monitoring.

8.18.17 The frictional resistance between the soldier piles and retained soil may be used to resist the vertical component of the load. The coefficient of friction may be taken as 0.3 based on uniform contact between the steel beam and lean-mix concrete and alluvium. The portion of soldier piles below the plane of excavation may also be employed to resist the downward loads. The downward capacity may be determined using a frictional resistance of 350 psf (value has been reduced for buoyant forces). Increases in frictional resistance may be available at greater depths and Geocon should be contacted to provide an updated value once a preliminary shoring design is available.

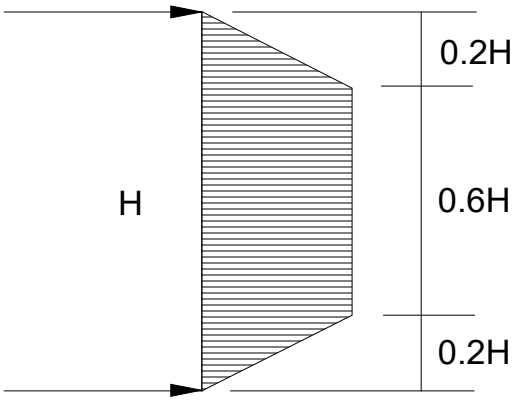
8.18.18 Due to the nature of the site soils, it is expected that continuous lagging between soldier piles will be required. However, it is recommended that the exposed soils be observed by the Geotechnical Engineer (a representative of Geocon West, Inc.), to verify the presence of any cohesive soils and the areas where lagging may be omitted.

8.18.19 The time between lagging excavation and lagging placement should be as short as possible. Soldier piles should be designed for the full-anticipated pressures. Due to arching in the soils, the pressure on the lagging will be less. It is recommended that the lagging be designed for the full design pressure but be limited to a maximum of 400 psf.

8.18.20 For the design of shoring, it is recommended that an equivalent fluid pressure based on the following table, be utilized for design. A trapezoidal distribution of lateral earth pressure may be used where shoring will be bracing or tie backs. The recommended active and trapezoidal pressure are provided in the following table. A diagram depicting the trapezoidal pressure distribution of lateral earth pressure is provided below the table. Calculation of the recommended shoring pressures is provided as Figure 9.

HEIGHT OF SHORING (FEET)	EQUIVALENT FLUID PRESSURE (Pounds Per Cubic Foot) (ACTIVE PRESSURE)	EQUIVALENT FLUID PRESSURE (Pounds Per Square Foot per Foot) Active Trapezoidal (Where H is the height of the shoring in feet)
Up to 35	44	28H

Trapezoidal Distribution of Pressure



8.18.21 It is very important to note that active pressures can only be achieved when movement in the soil (earth wall) occurs. If movement in the soil is not acceptable, such as adjacent to an existing structure, an at-rest pressure of 65 pcf should be considered for the design of shoring up to 29 feet in height.

8.18.22 Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination. Additional active pressure should be added for a surcharge condition due to slopes, vehicular traffic or adjacent structures and should be designed for each condition. The surcharge pressure should be evaluated in accordance with the recommendations in Section 8.23 of this report.

8.18.23 In addition to the recommended earth pressure, the upper 10 feet of the shoring adjacent to the street or driveway areas should be designed to resist a uniform lateral pressure of 100 psf, acting as a result of an assumed 300 psf surcharge behind the shoring due to normal street traffic. If the traffic is kept back at least 10 feet from the shoring, or a distance from the shoring equal to at least half the shoring height, whichever is greater, the traffic surcharge may be neglected.

8.18.24 It is difficult to accurately predict the amount of deflection of a shored embankment. It should be realized that some deflection will occur. It is recommended that the deflection be minimized to prevent damage to existing structures and adjacent improvements. Where public right-of-ways are present or adjacent offsite structures do not surcharge the shoring excavation, the shoring deflection should be limited to less than 1 inch at the top of the shored embankment. Where offsite structures are within the shoring surcharge area it is recommended that the beam deflection be limited to less than ½ inch at the elevation of the adjacent offsite foundation, and no deflection at all if deflections will damage existing structures. The allowable deflection is dependent on many factors, such as the presence of structures and utilities near the top of the embankment, and will be assessed and designed by the project shoring engineer.

8.18.25 Because of the depth of the excavation, some means of monitoring the performance of the shoring system is suggested. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles and the lateral movement along the entire lengths of selected soldier piles.

8.18.26 Due to the depth of the depth of the excavation and proximity to adjacent structures, it is suggested that prior to excavation the existing improvements be inspected to document the present condition. For documentation purposes, photographs should be taken of preconstruction distress conditions and level surveys of adjacent grade and pavement should be considered. During excavation activities, the adjacent structures and pavement should be periodically inspected for signs of distress. In the even that distress or settlement is noted, an investigation should be performed and corrective measures taken so that continued or worsened distress or settlement is mitigated. Documentation and monitoring of the offsite structures and improvements is not the responsibility of the geotechnical engineer.

8.19 Temporary Tie-Back Anchors

8.19.1 Temporary tie-back anchors may be used to resist lateral loads. The owner is responsible for obtaining agreements for installation of temporary tie-backs which extend beyond the property lines. Post-grouted friction anchors are recommended. For design purposes, it may be assumed that the active wedge adjacent to the shoring is defined by a plane drawn 35 degrees with the vertical through the bottom plane of the excavation. Friction anchors should extend a minimum of 20 feet beyond the potentially active wedge and to greater lengths if necessary to develop the desired capacities. The locations and depths of all offsite utilities should be thoroughly checked and incorporated into the drilling angle design for the tie-back anchors.

8.19.2 The capacities of the anchors should be determined by testing of the initial anchors as outlined in a following section. Only the frictional resistance developed beyond the active wedge would be effective in resisting lateral loads. Anchors should be placed at least 6 feet on center to be considered isolated. For preliminary design purposes, it is estimated that drilled friction anchors constructed without utilizing post-grouting techniques will develop average skin frictions as follows:

- 5 feet below the top of the excavation – 500 pounds per square foot
- 15 feet below the top of the excavation – 900 pounds per square foot

8.19.3 Depending on the techniques utilized, and the experience of the contractor performing the installation, a maximum allowable friction capacity of 3 kips per linear foot for post-grouted anchors (for a minimum 20-foot length beyond the active wedge) may be assumed for design purposes. Only the frictional resistance developed beyond the active wedge should be utilized in resisting lateral loads. Higher capacity assumptions may be acceptable, but must be verified by testing.

8.20 Anchor Installation

8.20.1 Tied-back anchors are typically installed between 20 and 40 degrees below the horizontal; however, occasionally alternative angles are necessary to avoid existing improvements and utilities. The locations and depths of all offsite utilities should be thoroughly checked prior to design and installation of the tie-back anchors. Caving of the anchor shafts, particularly within sand and gravel deposits or seepage zones, should be anticipated during installation and provisions should be implemented in order to minimize such caving. It is suggested that hollow-stem auger drilling equipment be used to install the anchors. The anchor shafts should be filled with concrete by pumping from the tip out, and the concrete should extend from the tip of the anchor to the active wedge. In order to minimize the chances of caving, it is recommended that the portion of the anchor shaft within the active wedge be backfilled with sand before testing the anchor. This portion of the shaft should be filled tightly and flush with the face of the excavation. The sand backfill should be placed by pumping; the sand may contain a small amount of cement to facilitate pumping.

8.21 Anchor Testing

8.21.1 All of the anchors should be tested to at least 150 percent of design load. The total deflection during this test should not exceed 12 inches. The rate of creep under the 150 percent test load should not exceed 0.1 inch over a 15-minute period in order for the anchor to be approved for the design loading.

8.21.2 At least 10 percent of the anchors should be selected for "quick" 200 percent tests and three additional anchors should be selected for 24-hour 200 percent tests. The purpose of the 200 percent tests is to verify the friction value assumed in design. The anchors should be tested to develop twice the assumed friction value. These tests should be performed prior to installation of additional tiebacks. Where satisfactory tests are not achieved on the initial anchors, the anchor diameter and/or length should be increased until satisfactory test results are obtained.

8.21.3 The total deflection during the 24-hour 200 percent test should not exceed 12 inches. During the 24-hour tests, the anchor deflection should not exceed 0.75 inches measured after the 200 percent test load is applied.

8.21.4 For the "quick" 200 percent tests, the 200 percent test load should be maintained for 30 minutes. The total deflection of the anchor during the 200 percent quick tests should not exceed 12 inches; the deflection after the 200 percent load has been applied should not exceed 0.25 inch during the 30-minute period.

8.21.5 After a satisfactory test, each anchor should be locked-off at the design load. This should be verified by rechecking the load in the anchor. The load should be within 10 percent of the design load. A representative of this firm should observe the installation and testing of the anchors.

8.22 Internal Bracing

8.22.1 Rakers may be utilized to brace the soldier piles in lieu of tieback anchors. The raker bracing could be supported laterally by temporary concrete footings (deadmen) or by the permanent, interior footings. For design of such temporary footings or deadmen, poured with the bearing surface normal to rakers inclined at 45 degrees, a bearing value of 2,000 psf in competent alluvial soil, provided the shallowest point of the footing is at least 1 foot below the lowest adjacent grade. The client should be aware that the utilization of rakers could significantly impact the construction schedule do to their intrusion into the construction site and potential interference with equipment. The structural engineer should review the shoring plan to determine if the raker footings conflict with the structural foundation system.

8.23 Surcharge from Adjacent Structures and Improvements

8.23.1 Additional pressure should be added for a surcharge condition due to sloping ground, vehicular traffic or adjacent structures and should be designed for each condition as the project progresses.

8.23.2 It is recommended that line-load surcharges from adjacent wall footings, use horizontal pressures generated from NAV-FAC DM 7.2. The governing equations are:

$$For\ {}^{x}/_{H} \leq 0.4$$

$$\sigma_H(z) = \frac{0.20 \times \left(\frac{z}{H}\right)}{\left[0.16 + \left(\frac{z}{H}\right)^2\right]^2} \times \frac{Q_L}{H}$$

and

$$For\ {}^{x}/_{H} > 0.4$$

$$\sigma_H(z) = \frac{1.28 \times \left(\frac{x}{H}\right)^2 \times \left(\frac{z}{H}\right)}{\left[\left(\frac{x}{H}\right)^2 + \left(\frac{z}{H}\right)^2\right]^2} \times \frac{Q_L}{H}$$

where x is the distance from the face of the excavation or wall to the vertical line-load, H is the distance from the bottom of the footing to the bottom of excavation or wall, z is the depth at which the horizontal pressure is desired, Q_L is the vertical line-load and $\sigma_H(z)$ is the horizontal pressure at depth z.

8.23.3 It is recommended that vertical point-loads, from construction equipment outriggers or adjacent building columns use horizontal pressures generated from NAV-FAC DM 7.2. The governing equations are:

$$For\ {}^{x}/_{H} \leq 0.4$$

$$\sigma_H(z) = \frac{0.28 \times \left(\frac{z}{H}\right)^2}{\left[0.16 + \left(\frac{z}{H}\right)^2\right]^3} \times \frac{Q_P}{H^2}$$

and

$$For\ {}^{x}/_{H} > 0.4$$

$$\sigma_H(z) = \frac{1.77 \times \left(\frac{x}{H}\right)^2 \times \left(\frac{z}{H}\right)^2}{\left[\left(\frac{x}{H}\right)^2 + \left(\frac{z}{H}\right)^2\right]^3} \times \frac{Q_P}{H^2}$$

then

$$\sigma'_H(z) = \sigma_H(z) cos^2(1.1\theta)$$

where x is the distance from the face of the excavation/wall to the vertical point-load, H is distance from the outrigger/bottom of column footing to the bottom of excavation, z is the depth at which the horizontal pressure is desired, Q_P is the vertical point-load, $\sigma_H(z)$ is the horizontal pressure at depth z, θ is the angle between a line perpendicular to the excavation/wall and a line from the point-load to location on the excavation/wall where the surcharge is being evaluated, and $\sigma_H(z)$ is the horizontal pressure at depth z.

8.24 Surface Drainage

8.24.1 Proper surface drainage is critical to the future performance of the project. Uncontrolled infiltration of irrigation excess and storm runoff into the soils can adversely affect the performance of the planned improvements. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the original designed engineering properties. Proper drainage should be maintained at all times.

8.24.2 All site drainage should be collected and controlled in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. The site should be graded and maintained such that surface drainage is directed away from structures in accordance with 2016 CBC 1804.4 or other applicable standards. In addition, drainage should not be allowed to flow uncontrolled over any descending slope. Discharge from downspouts, roof drains and scuppers are not recommended onto unprotected soils within 5 feet of the building perimeter. Planters which are located adjacent to foundations should be sealed to prevent moisture intrusion into the soils providing foundation support. Landscape irrigation is not recommended within 5 feet of the building perimeter footings except when enclosed in protected planters.

8.24.3 Positive site drainage should be provided away from structures, pavement, and the tops of slopes to swales or other controlled drainage structures. The building pad and pavement areas should be fine graded such that water is not allowed to pond.

8.24.4 Landscaping planters immediately adjacent to paved areas are not recommended due to the potential for surface or irrigation water to infiltrate the pavement's subgrade and base course. Either a subdrain, which collects excess irrigation water and transmits it to drainage structures, or an impervious above-grade planter boxes should be used. In addition, where landscaping is planned adjacent to the pavement, it is recommended that consideration be given to providing a cutoff wall along the edge of the pavement that extends at least 12 inches below the base material.

8.25 Plan Review

8.25.1 Grading, foundation, and shoring plans should be reviewed by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to finalization to verify that the plans have been prepared in substantial conformance with the recommendations of this report and to provide additional analyses or recommendations.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, Geocon West, Inc. should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous or corrosive materials was not part of the scope of services provided by Geocon West, Inc.

2. This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

3. The findings of this report are valid as of the date of this report. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

4. The firm that performed the geotechnical investigation for the project should be retained to provide testing and observation services during construction to provide continuity of geotechnical interpretation and to check that the recommendations presented for geotechnical aspects of site development are incorporated during site grading, construction of improvements, and excavation of foundations. If another geotechnical firm is selected to perform the testing and observation services during construction operations, that firm should prepare a letter indicating their intent to assume the responsibilities of project geotechnical engineer of record. A copy of the letter should be provided to the regulatory agency for their records. In addition, that firm should provide revised recommendations concerning the geotechnical aspects of the proposed development, or a written acknowledgement of their concurrence with the recommendations presented in our report. They should also perform additional analyses deemed necessary to assume the role of Geotechnical Engineer of Record.

LIST OF REFERENCES

California Department of Water Resources, 1961, *Planned Utilization of Groundwater Basins of the Coastal Plain of Los Angeles County*, Bulletin 104, Appendix A.

California Division of Mines and Geology, 1999; *State of California Seismic Hazard Zones, Hollywood Quadrangle,* Official Map Released March 25, 1999.

California Division of Mines and Geology, 1998, *Seismic Hazard Evaluation of the Hollywood 7.5-Minute Quadrangle, Los Angeles County, California,* Open File Report 98-17.

California Division of Oil, Gas and Geothermal Resources, 2018, Online Well Finder, http://maps.conservation.ca.gov/doggr/#close.

California Geological Survey, 2018a, *Earthquake Fault Zones, A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California,* Special Publication 42, Revised 2018.

California Geological Survey, 2018b, CGS Information Warehouse, Regulatory Map Portal, http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps.

California Geological Survey, 2014a, *Fault Evaluation Report FER 253, The Hollywood Fault in the Hollywood 7.5' Quadrangle, Los Angeles County, California*, California Geological Survey, Fault Evaluation, *dated February 14*.

California Geological Survey, 2014b, *Earthquake Zones of Required Investigation, Hollywood Quadrangle, dated November 6, 2014*.

California Geological Survey, 2012, *Geologic Compilation of Quaternary Surficial Deposits in Southern California, Los Angeles 30' X 60' Quadrangle*, A Project for the Department of Water Resources by the California Geological Survey, Compiled from existing sources by Trinda L. Bedrossian, CEG and Peter D. Roffers, CGS Special Report 217, Plate 9, Scale 1:100,000.

Dibblee, T. W., Jr., 1991, *Geologic Map of the Beverly Hills and Van Nuys (South ½) Quadrangles, Los Angeles County, California,* Dibblee Geological Foundation Map #DF-31.

FEMA, 2018, Online Flood Hazard Maps, http://www.esri.com/hazards/index.html.

Jennings, C. W. and Bryant, W. A., 2010, *Fault Activity Map of California,* California Geological Survey Geologic Data Map No. 6.

Leighton and Associates, Inc., 1990, *Technical Appendix to the Safety Element of the Los Angeles County General Plan, Hazard Reduction in Los Angeles County.*

Los Angeles County Department of Public Works, 2018a, Ground Water Wells Website, http://dpw2.co.la.ca.us/website/wells/viewer.asp.

Los Angeles County Department of Public Works, 2018b, Flood Zone Determination Website, http://dpw.lacounty.gov/apps/wmd/floodzone/map.htm.

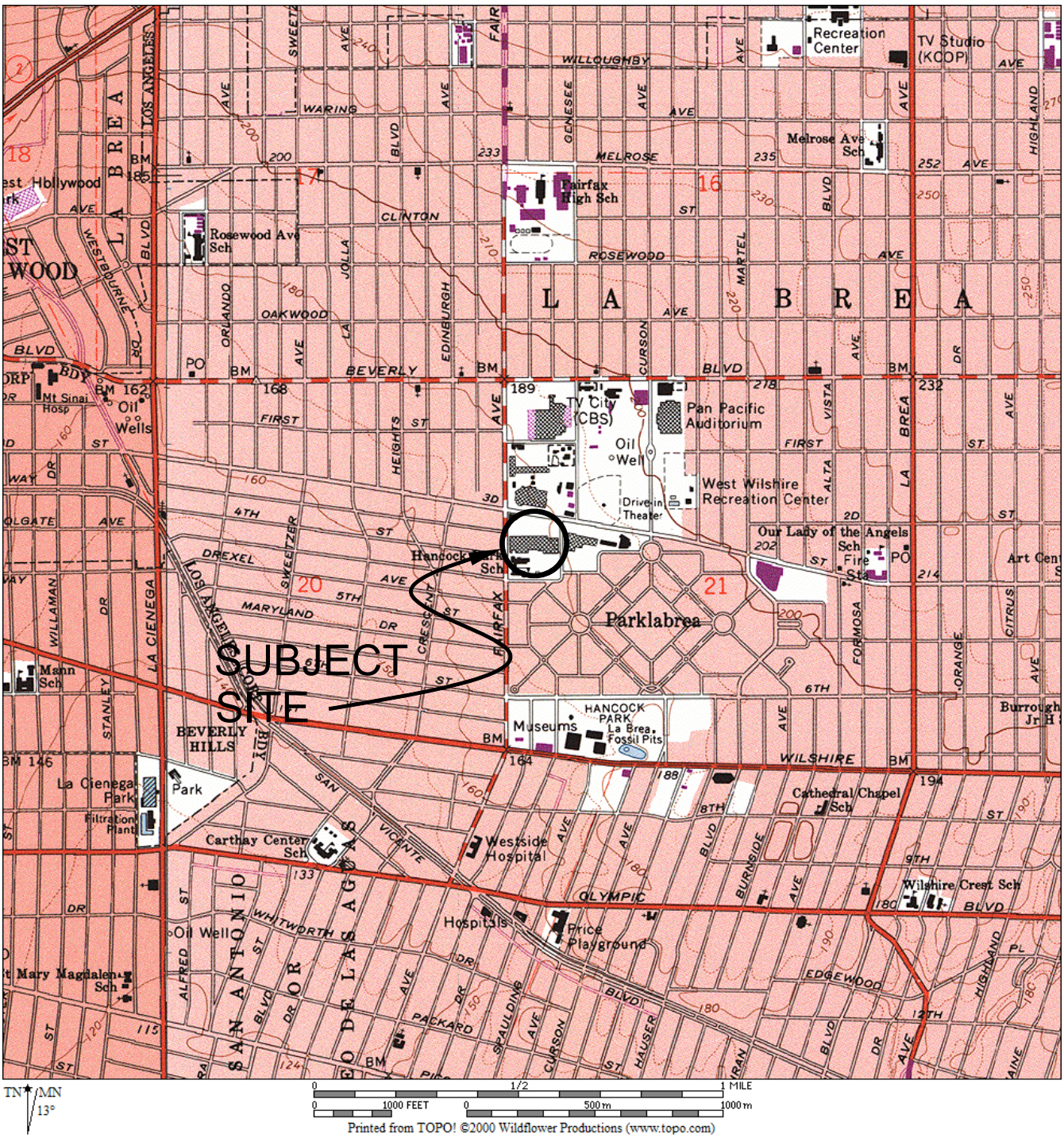
LIST OF REFERENCES (continued)

Toppozada, T., Branum, D., Petersen, M, Hallstrom, C., and Reichle, M., 2000, *Epicenters and Areas Damaged by M> 5 California Earthquakes, 1800 – 1999,* California Geological Survey, Map Sheet 49.

U.S. Geological Survey, 1972, *Hollywood 7.5-Minute Topographic Map*.

Yerkes, R. F., McCulloch, T. H., Schoellhamer, J. E., and Vedder, J. G., 1965, *Geology of the Los Angeles Basin–An Introduction*, U.S. Geological Survey Professional Paper 420-A.

Ziony, J. I., and Jones, L. M., 1989, *Map Showing Late Quaternary Faults and 1978–1984 Seismicity of the Los Angeles Region, California*, U.S. Geological Survey Miscellaneous Field Studies Map MF-1964.



REFERENCE:U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES, HOLLYWOOD, CA QUADRANGLE

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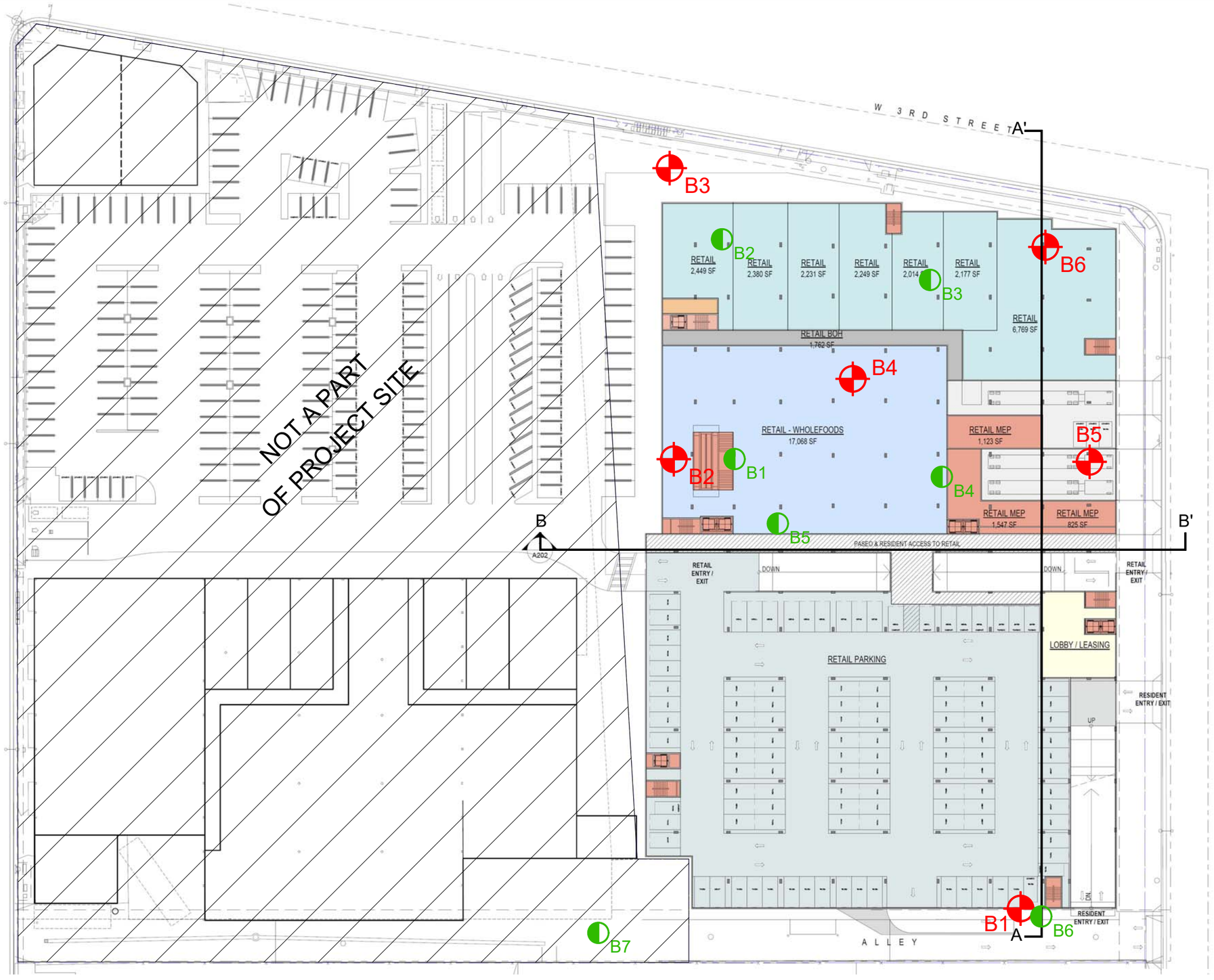
DRAFTED BY: RA	CHECKED BY: SFK

VICINITY MAP

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 1



LEGEND

B5 — Approximate Location of Boring Geocon, 2018

B7 — Approximate Location of Boring Krazan, 2017

N

0 60' 120'

GEOCON WEST, INC.

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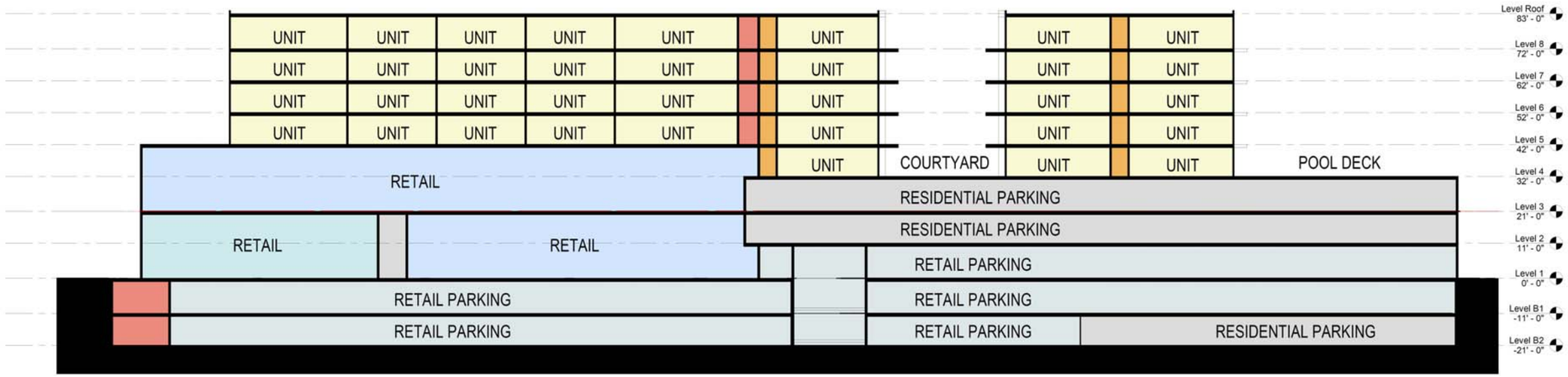
SITE PLAN

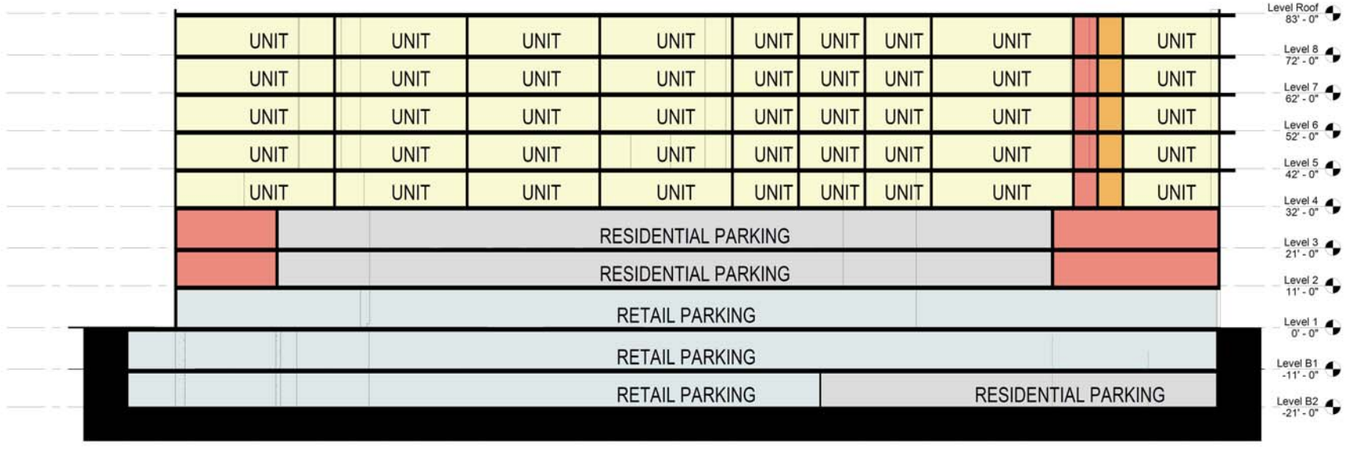
HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 2



Section A-A'



Section B-B'

1" = 40' (H&V)

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CROSS SECTION

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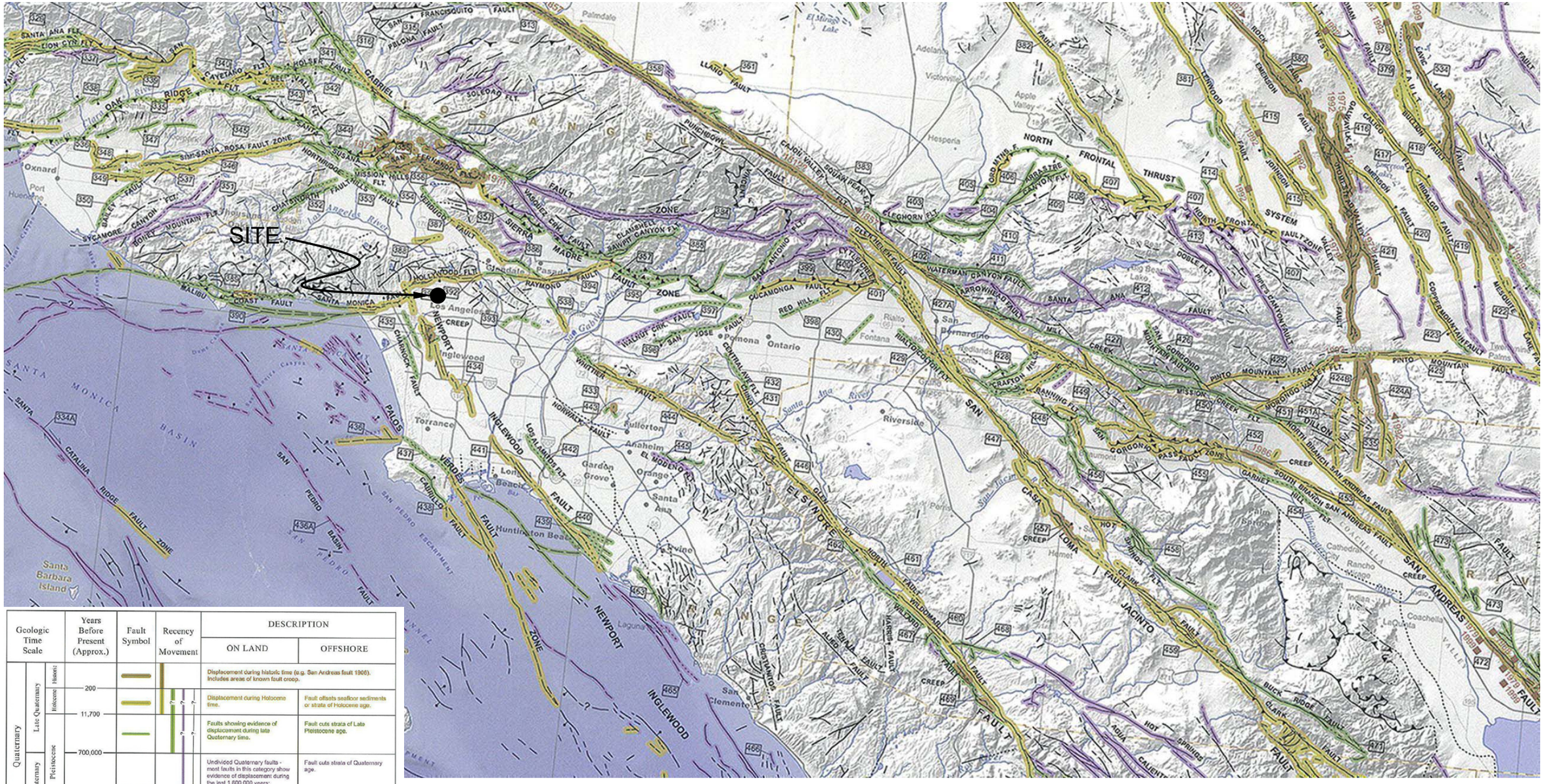
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 3

Reference: Jennings, C.W. and Bryant, W. A., 2010, Fault Activity Map of California, California Geological Survey Geologic Data Map No. 6.



Geologic Time Scale			Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION: ON LAND	DESCRIPTION: OFFSHORE
Quaternary	Late Quaternary	Historic				Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
		Holocene	200			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
			11,700			Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
	Early Quaternary	Pleistocene	700,000			Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age	Fault cuts strata of Quaternary age.
Pre-Quaternary			1,600,000*			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.
			4.5 billion (Age of Earth)				

* Quaternary now recognized as extending to 2.6 Ma (Walker and Geissman, 2009). Quaternary faults in this map were established using the previous 1.6 Ma criterion.

N

0 12 24 Miles

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REGIONAL FAULT MAP

HOLLAND ACQUISITION CO, LLC
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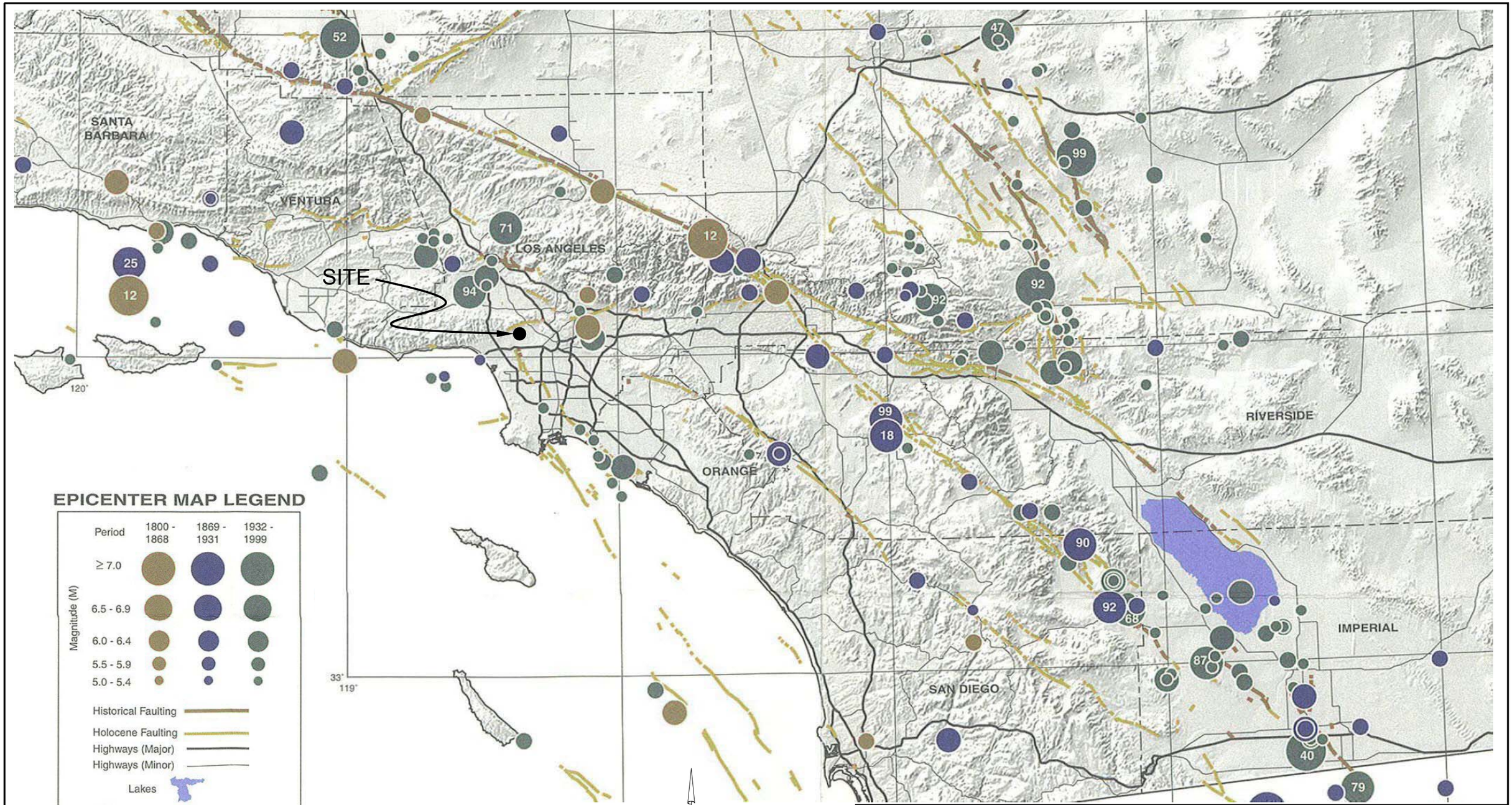
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 4



Reference: Toppozada, T., Branum, D., Petersen, M., Hallstrom, C., Cramer, C., and Reichle, M., 2000, Epicenters and Areas Damaged by M≥5 California Earthquakes, 1800 - 1999, California Geological Survey, Map Sheet 49.

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REGIONAL SEISMICITY MAP

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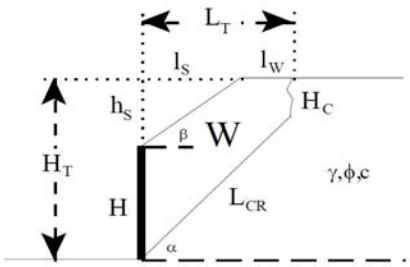
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. 5

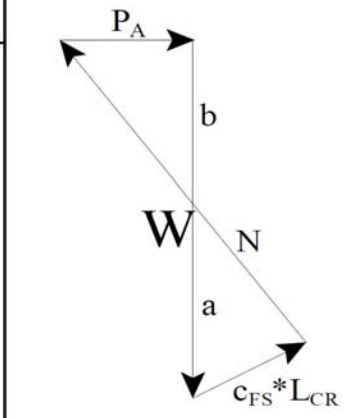
Retaining Wall Design with Transitioned Backfill
(Vector Analysis)

Input:

Retaining Wall Height	(H)	30.00	feet
Slope Angle of Backfill	(b)	0.0	degrees
Height of Slope above Wall	(h_s)	0.0	feet
Horizontal Length of Slope	(l_s)	0.0	feet
Total Height (Wall + Slope)	(H_T)	30.0	feet
Unit Weight of Retained Soils	(g)	125.0	pcf
Friction Angle of Retained Soils	(f)	32.0	degrees
Cohesion of Retained Soils	(c)	70.0	psf
Factor of Safety	(FS)	1.50	
Factored Parameters:	(f_{FS})	22.6	degrees
	(c_{FS})	46.7	psf



Failure Angle (a) degrees	Height of Tension Crack (H_C) feet	Area of Wedge (A) $feet^2$	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L_{CR}) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P_A) lbs/lineal foot
45	1.3	449	56147.6	40.6	4594.5	51553.1	21232.2
46	1.2	434	54225.7	40.0	4337.9	49887.8	21572.2
47	1.2	419	52366.7	39.3	4105.5	48261.2	21876.4
48	1.2	405	50566.5	38.8	3894.2	46672.3	22146.1
49	1.2	391	48821.5	38.2	3701.5	45120.0	22382.4
50	1.2	377	47128.1	37.6	3525.3	43602.8	22586.5
51	1.2	364	45483.2	37.1	3363.8	42119.4	22759.1
52	1.1	351	43883.8	36.6	3215.3	40668.4	22900.9
53	1.1	339	42327.0	36.1	3078.5	39248.5	23012.6
54	1.1	326	40810.5	35.7	2952.3	37858.2	23094.6
55	1.1	315	39331.6	35.3	2835.5	36496.1	23147.2
56	1.1	303	37888.2	34.8	2727.2	35161.0	23170.7
57	1.1	292	36478.2	34.4	2626.7	33851.5	23165.1
58	1.1	281	35099.6	34.1	2533.2	32566.5	23130.4
59	1.1	270	33750.6	33.7	2446.1	31304.6	23066.5
60	1.1	259	32429.5	33.3	2364.8	30064.7	22973.2
61	1.1	249	31134.5	33.0	2288.8	28845.6	22850.0
62	1.2	239	29864.2	32.7	2217.8	27646.4	22696.4
63	1.2	229	28617.1	32.4	2151.2	26465.9	22511.8
64	1.2	219	27391.9	32.1	2088.7	25303.1	22295.5
65	1.2	209	26187.2	31.8	2030.0	24157.1	22046.4
66	1.2	200	25001.8	31.5	1974.8	23027.0	21763.6
67	1.3	191	23834.5	31.2	1922.8	21911.7	21445.8
68	1.3	181	22684.3	31.0	1873.7	20810.6	21091.7
69	1.3	172	21550.0	30.7	1827.4	19722.6	20699.5
70	1.4	163	20430.7	30.5	1783.5	18647.2	20267.5



Design Equations (Vector Analysis):

$a = c_{FS}*L_{CR}*\sin(90+f_{FS})/\sin(a-f_{FS})$

$b = W-a$

$P_A = b*\tan(a-f_{FS})$

$EFP = 2*P_A/H^2$

Maximum Active Pressure Resultant

$P_{A,\ max}$ 23170.7 lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of wall)

$EFP = 2*P_A/H^2$

EFP	51.5 pcf	58.8 pcf
Design Wall for an Equivalent Fluid Pressure:	**51 pcf**	**59 pcf**

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RETAINING WALL PRESSURE CALCULATION

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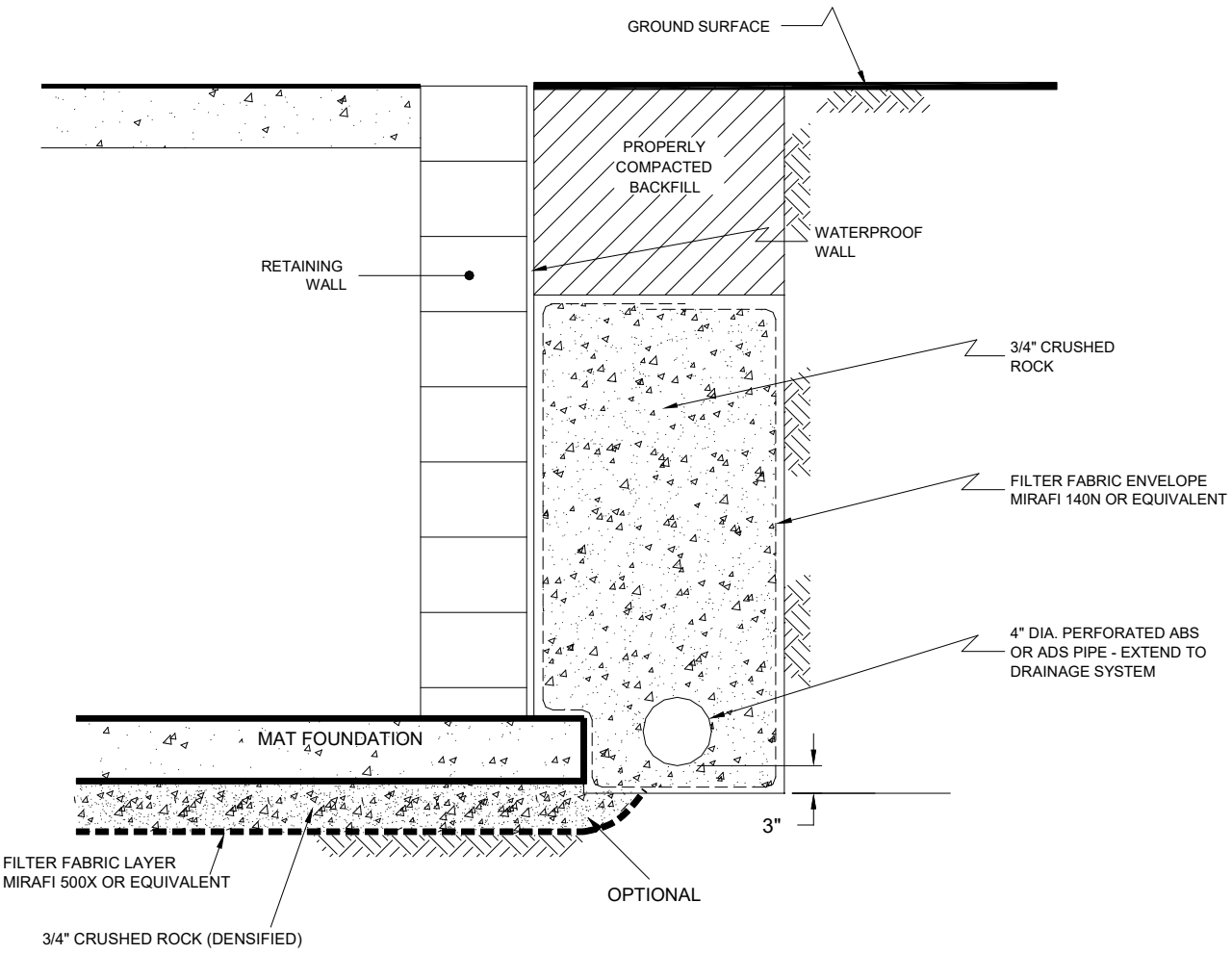
3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

Drafted by: JTA	Checked by: NDB	NOV 2018	PROJECT NO. A9713-06-01	FIG. 6



NO SCALE

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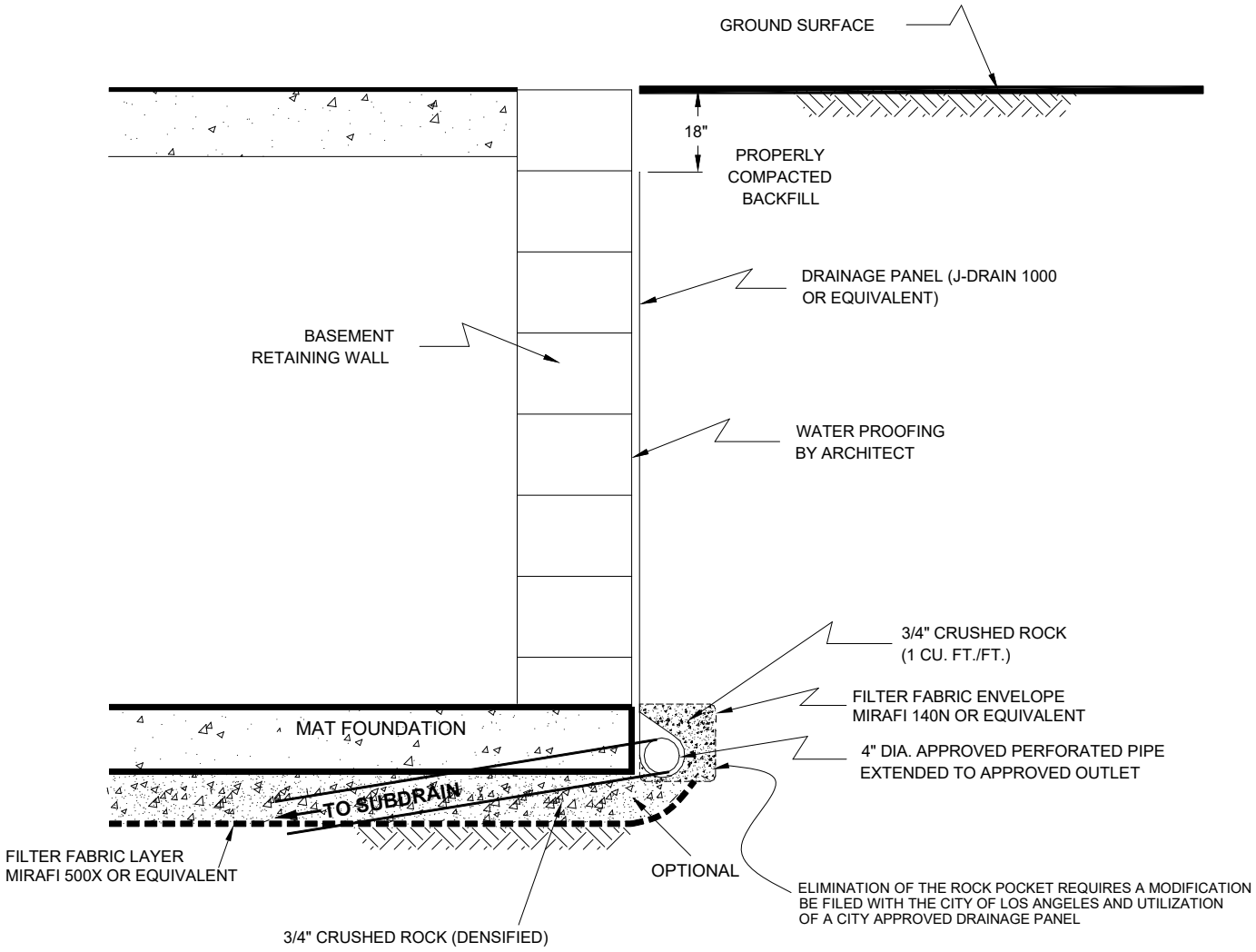
RETAINING WALL DRAIN DETAIL

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 7



NOTE: TOP OF DRAINAGE PANEL NOT MORE THAN 18 INCHES FROM GROUND SURFACE

NO SCALE

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RETAINING WALL DRAIN DETAIL

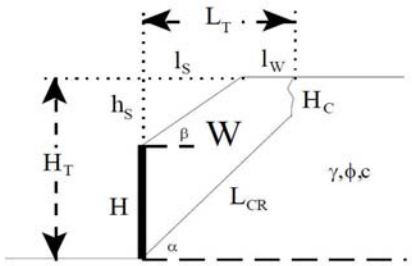
HOLLAND ACQUISITION CO, LLC
3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. 8

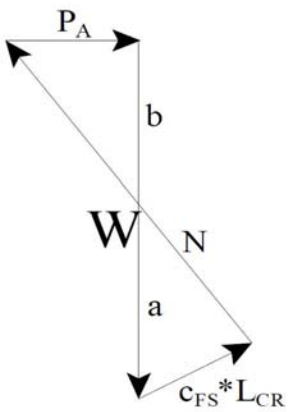
Shoring Design with Transitioned Backfill
(Vector Analysis)

Input:

Shoring Height	(H)	35.00	feet
Slope Angle of Backfill	(b)	0.0	degrees
Height of Slope above Shoring	(h_s)	0.0	feet
Horizontal Length of Slope	(l_s)	0.0	feet
Total Height (Shoring + Slope)	(H_T)	35.0	feet
Unit Weight of Retained Soils	(g)	125.0	pcf
Friction Angle of Retained Soils	(f)	32.0	degrees
Cohesion of Retained Soils	(c)	70.0	psf
Factor of Safety	(FS)	1.25	
Factored Parameters:	(f_{FS})	26.6	degrees
	(c_{FS})	56.0	psf



Failure Angle (a) degrees	Height of Tension Crack (H_C) feet	Area of Wedge (A) $feet^2$	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L_{CR}) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P_A) lbs/lineal foot
45	1.8	611	76361.9	47.0	7437.1	68924.8	22981.3
46	1.7	590	73754.2	46.2	6960.2	66794.0	23574.0
47	1.7	570	71230.7	45.6	6534.2	64696.5	24111.5
48	1.6	550	68786.1	44.9	6151.9	62634.2	24596.2
49	1.6	531	66415.7	44.3	5807.4	60608.3	25030.1
50	1.6	513	64114.8	43.6	5495.7	58619.1	25415.0
51	1.5	495	61879.2	43.1	5212.7	56666.5	25752.5
52	1.5	478	59705.1	42.5	4955.0	54750.1	26043.8
53	1.5	461	57588.7	42.0	4719.5	52869.2	26290.2
54	1.5	444	55526.5	41.4	4503.8	51022.7	26492.6
55	1.5	428	53515.5	40.9	4305.6	49209.8	26651.8
56	1.5	412	51552.4	40.5	4123.2	47429.2	26768.4
57	1.5	397	49634.7	40.0	3954.9	45679.8	26842.8
58	1.4	382	47759.5	39.6	3799.2	43960.3	26875.4
59	1.5	367	45924.4	39.1	3654.9	42269.5	26866.2
60	1.5	353	44127.1	38.7	3520.9	40606.1	26815.2
61	1.5	339	42365.3	38.3	3396.4	38968.9	26722.3
62	1.5	325	40637.0	38.0	3280.3	37356.7	26587.1
63	1.5	312	38940.2	37.6	3172.0	35768.3	26409.0
64	1.5	298	37273.1	37.3	3070.7	34202.4	26187.3
65	1.5	285	35633.9	36.9	2975.9	32658.0	25921.3
66	1.6	272	34020.9	36.6	2887.0	31133.9	25609.8
67	1.6	259	32432.5	36.3	2803.6	29629.0	25251.7
68	1.6	247	30867.3	36.0	2725.0	28142.3	24845.4
69	1.7	235	29323.7	35.7	2651.1	26672.7	24389.4
70	1.7	222	27800.4	35.4	2581.2	25219.2	23881.8



Design Equations (Vector Analysis):

$a = c_{FS}*L_{CR}*\sin(90+f_{FS})/\sin(a-f_{FS})$

$b = W-a$

$P_A = b*\tan(a-f_{FS})$

$EFP = 2*P_A/H^2$

Maximum Active Pressure Resultant

$P_{A,\,max}$ 26875.4 lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

$EFP = 2*P_A/H^2$

EFP 43.9 pcf

Design Shoring for an Equivalent Fluid Pressure: 44 pcf

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SHORING PRESSURE CALCULATION

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LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. 9

APPENDIX A

APPENDIX A

FIELD INVESTIGATION

The site was explored on January 2 and 3, 2018, by excavating six 8-inch-diameter borings utilizing a truck-mounted hollow-stem auger drilling machine. The borings were excavated to depths ranging from approximately 15½ to 100½ feet below the existing ground surface. Representative and relatively undisturbed samples were obtained by driving a 3 inch, O. D., California Modified Sampler into the "undisturbed" soil mass with blows from a 140-pound auto-hammer falling 30 inches. The California Modified Sampler was equipped with 1-inch high by 2 3/8-inch diameter brass sampler rings to facilitate soil removal and testing. Bulk samples were also obtained.

The soil conditions encountered in the borings were visually examined, classified and logged in general accordance with the Unified Soil Classification System (USCS). The logs of the borings are presented on Figures A1 through A6. The logs depict the soil and geologic conditions encountered and the depth at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, penetration rates, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the boring logs were revised based on subsequent laboratory testing. The location of the borings are shown on Figure 2.

PROJECT NO. A9713-06-01

BORING 1

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0			**AC: 5.5" BASE: NONE**			
			ARTIFICIAL FILL			
2			Sand, poorly graded, very loose, slightly moist, dark brown with orange mottles, fine- to medium-grained, some clay.			
4						
	B1@5'			6	110.5	17.3
6			**ALLUVIUM**			
		SP	Sand, poorly graded, very loose, slightly moist, dark olive brown, fine- to medium-grained.			
8						
			Silty Sand, loose, slightly moist, brown, fine- to medium-grained.			
10	B1@10'		- yellowish brown	12	118.5	10.7
		SM				
12	B1@12.5'			10	108.2	23.3
14			Sandy Silt, soft, slightly moist, yellowish brown with grayish brown mottles, fine-grained.			
	B1@15'	ML		11	106.9	16.1
16			Sand, poorly graded, medium dense, slightly moist, yellowish brown, fine- to medium-grained.			
		SP				
18	B1@17.5'			23	100.1	14.8
			Sandy Silt, stiff, slightly moist, grayish brown, trace clay.			
20	B1@20'			32	109.3	15.9
22						
24		ML	- dark yellowish brown			
	B1@25'			32	103.0	22.9
26						
28						
			- gray			

A9713-06-01 BORING LOGS.GPJ

Figure A1,
Log of Boring 1, Page 1 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. A9713-06-01

BORING 1

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B1@30'	ML		22	106.6	19.3
32						
34						
36	B1@35'	SC	Clayey Sand, medium dense, slightly moist, gray, fine-grained.	26	88.3	35.1
38						
40	B1@40'	CL	Clay, firm, slightly moist, light gray, plastic.	14	95.6	29.1
42						
44						
46	B1@45'	ML	Sandy Silt, firm, slightly moist, light gray, fine-grained.	14	98.9	26.3
48						
50	B1@50'	SP	Sand, poorly graded, medium dense, wet, light gray, fine- to medium-grained, some silt.	46	119.4	13.7
52						
54						
56	B1@55'	SP-SM	Sand with Silt, medium dense, wet, light gray, fine- to medium-grained.	44	113.0	19.1
58						

A9713-06-01 BORING LOGS.GPJ

Figure A1,
Log of Boring 1, Page 2 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. A9713-06-01

BORING 1

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B1@60'			SP-SM		40	112.2	15.5
62								
64								
66	B1@65'				Silty Sand, medium dense, wet, gray, fine- to medium-grained.	47	116.0	11.3
68								
70	B1@70'					37	105.4	25.9
72								
74								
76	B1@75'			SM		46	111.6	16.7
78								
80	B1@80'					37	107.8	16.6
82								
84								
86	B1@85'				- grayish brown, fine-grained	28	112.1	14.8
88								

A9713-06-01 BORING LOGS.GPJ

Figure A1,
Log of Boring 1, Page 3 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9713-06-01

BORING 1

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B1@90'			SM	- very dense, dark gray	50 (6")	119.8	16.0
92								
94								
96	B1@95'				- light gray	50 (6")	106.4	17.4
98								
100	B1@100'				- medium dense, fine- to medium-grained	52	107.3	18.7

Total depth of boring: 100.5 feet
Fill to 5.5 feet.
Groundwater encountered at 30 feet.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9713-06-01 BORING LOGS.GPJ

Figure A1,
Log of Boring 1, Page 4 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9713-06-01

BORING 2

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0			**AC: 5" BASE: NONE**			
2			**ARTIFICIAL FILL**			
4			Silt, soft, slightly moist, brown.			
6	B2@5'		**ALLUVIUM** Silty Sand, medium dense, slightly moist, grayish brown, fine- to medium-grained, trace clay.	25	100.6	25.1
8		SM				
10	B2@10'		- loose, no clay	13	95.5	24.9
12			Sand, poorly graded, medium dense, slightly moist, grayish brown, fine- to medium-grained, friable.			
	B2@12.5'			51	--	--
14			- gray, trace silt			
16	B2@15'			30	112.3	9.0
18	B2@17.5'	SP	- loose, some coarse-grained	14	103.5	19.0
20	B2@20'		- silt layer, dark brown - medium dense, some fine gravel	21	104.3	26.6
22						
24						
26	B2@25'		Sand, poorly graded, medium dense, slightly moist, brown, fine-grained, trace clay.	21	116.6	16.6
28		SP				

A9713-06-01 BORING LOGS.GPJ

Figure A2,
Log of Boring 2, Page 1 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9713-06-01

BORING 2

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
30	B2@30'			SM	Silty Sand, medium dense, slightly moist, dark gray, fine-grained, trace clay.	30	105.1	23.0
32								
34								
36	B2@35'				- increase in silt content	30	98.1	30.2
38								
40	B2@40'				Silty Sand, medium dense, slightly moist, light gray, fine-grained, trace medium- to coarse-grained.	50	112.4	19.4
42								
44								
46	B2@45'				- grayish brown, fine-grained, trace clay	36	101.7	22.4
48				SM				
50	B2@50'				- gray	36	96.9	26.9
52								
54								
56	B2@55'				- some clay	35	100.0	27.5
58								

A9713-06-01 BORING LOGS.GPJ

Figure A2,
Log of Boring 2, Page 2 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

BORING 2

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
60	B2@60'			SM	- dense, trace clay, trace fine gravel (to 0.75")	64	109.7	18.1
62								
64								
66	B2@65'				- no clay	67	165.4	14.2
68								
70	B2@70'			SP	Sand, poorly graded, medium dense, wet, gray, fine- to medium-grained, trace silt.	30	107.6	20.3
72								
74								
76	B2@75'				- very dense	50 (6")	121.1	12.6
78								
80	B2@80'					50 (6")	108.4	18.4
82								
84								
86	B2@85'				- medium dense	29	103.5	22.9
88								

A9713-06-01 BORING LOGS.GPJ

Figure A2,
Log of Boring 2, Page 3 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

BORING 2

ELEV. (MSL.) -- DATE COMPLETED **1/2/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
90	B2@90'			SP		36	109.6	19.3
92								
94								
96	B2@95'					33	--	--
98								
100	B2@100'					43	109.8	18.9

Total depth of boring: 100.5 feet
Fill to 5 feet.
Groundwater encountered at 20 feet.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9713-06-01 BORING LOGS.GPJ

Figure A2,
Log of Boring 2, Page 4 of 4

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

BORING 3

ELEV. (MSL.) -- DATE COMPLETED **1/3/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0	BULK 0-5'		**AC: 4" BASE: 4"** **ARTIFICIAL FILL** Sandy Silt, stiff, slightly moist, brown, fine-grained, some clay.			
2	B3@2.5'			30	112.3	17.8
4						
6	B3@5'	SM	**ALLUVIUM** Silty Sand, medium dense, slightly moist, yellowish brown, fine-grained.	43	115.6	15.1
8						
10	B3@10'	ML	Sandy Silt, firm, slightly moist, grayish brown, fine-grained, trace clay.	13	108.3	19.1
12	B3@12.5'	ML	Silt, firm, slightly moist, light gray.	17	104.2	23.3
14						
16	B3@15'	CL	Silty Clay, firm, slightly moist, grayish brown.	21	101.8	25.0
18	B3@17.5'	ML	Clayey Silt, stiff, slightly moist, grayish brown.	27	98.7	25.1
20	B3@20'	ML	Sandy Silt, stiff, slightly moist, grayish brown, fine-grained.	27	102.6	23.9
22						
24	B3@25'	SP	Sand, poorly graded, medium dense, slightly moist, gray, fine- to medium-grained, trace silt.	42	117.2	16.8
26						
28						

A9713-06-01 BORING LOGS.GPJ

Figure A3,
Log of Boring 3, Page 1 of 2

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 3** ELEV. (MSL.) -- DATE COMPLETED **1/3/18** EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
30	B3@30'			SP		24	107.6	20.7

Total depth of boring: 30.5 feet
Fill to 5 feet.
Groundwater encountered at 27 feet.
Backfilled with soil cuttings and tamped.
Asphalt patched.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.

A9713-06-01 BORING LOGS.GPJ

Figure A3,
Log of Boring 3, Page 2 of 2

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL
◧ ... STANDARD PENETRATION TEST
■ ... DRIVE SAMPLE (UNDISTURBED)
⊠ ... DISTURBED OR BAG SAMPLE
◪ ... CHUNK SAMPLE
▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

BORING 4

ELEV. (MSL.) -- DATE COMPLETED **1/3/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**AC: 4" BASE: 6"**			
					ARTIFICIAL FILL			
2					Sandy Silt, soft, slightly moist, dark brown, fine- to medium-grained.			
	B4@2.5'					7	109.4	17.3
4								
	B4@5'				**ALLUVIUM**	29	121.0	15.0
6					Silty Sand, medium dense, slightly moist, dark grayish brown, fine- to medium-grained, trace fine gravel.			
				SM				
8								
					Sand, poorly graded, medium dense, slightly moist, dark brown, fine- to medium-grained, trace silt.			
10	B4@10'					34	116.3	7.3
				SP				
12	B4@12.5'				- grayish brown	32	104.6	14.4
					Silty Sand, loose, slightly moist, grayish brown, fine-grained.			
14								
	B4@15'			SM		15	100.4	21.4
16								
					Sandy Silt, firm, slightly moist, light gray, fine-grained.			
18	B4@17.5'					17	104.1	19.4
				ML				
20								
	B4@20' BULK 20-25'				Silty Sand, medium dense, slightly moist, grayish brown, fine-grained.	19	112.6	17.7
22								
24			▼	SM				
	B4@25'				- fine- to medium-grained, trace fine gravel	29	110.9	17.0
26								
28								

A9713-06-01 BORING LOGS.GPJ

Figure A4,
Log of Boring 4, Page 1 of 2

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◪ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	**BORING 4** ELEV. (MSL.) -- DATE COMPLETED **1/3/18** EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
					MATERIAL DESCRIPTION			
30	B4@30'			SM	- fine-grained, no gravel	36	119.2	15.0
					Total depth of boring: 30.5 feet Fill to 5 feet. Groundwater encountered at 25 feet. Backfilled with soil cuttings and tamped. Asphalt patced. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			

A9713-06-01 BORING LOGS.GPJ

Figure A4,
Log of Boring 4, Page 2 of 2

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL
◧ ... STANDARD PENETRATION TEST
■ ... DRIVE SAMPLE (UNDISTURBED)
⊠ ... DISTURBED OR BAG SAMPLE
◪ ... CHUNK SAMPLE
▼ ... WATER TABLE OR SEEPAGE

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PROJECT NO. A9713-06-01

BORING 5

ELEV. (MSL.) -- DATE COMPLETED **1/3/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**AC: 4" BASE: 6"**			
					ARTIFICIAL FILL			
2					Silty Sand, loose, slightly moist, dark grayish brown with light brown mottles, fine- to medium-grained.			
4								
6	B5@5'				**ALLUVIUM**	34	111.2	17.7
					Silty Sand, medium dense, slightly moist, dark brown, fine- to medium-grained, trace clay.			
8								
10	B5@10'			SM	- increase in silt content	24	113.5	14.0
12								
14								
16	B5@15'			ML	Silt, stiff, slightly moist, grayish brown, trace clay.	35	113.3	18.5
18								
20	B5@20'			SM	Silty Sand, medium dense, grayish brown, fine-grained.	21	111.5	17.6
22								
24				SP	Sand, poorly graded, medium dense, slightly moist, light gray, fine-grained, trace clay.			
	B5@25'					25	115.0	17.5
					Total depth of boring: 25.5 feet Fill to 5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. Asphalt patched. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			

A9713-06-01 BORING LOGS.GPJ

Figure A5,
Log of Boring 5, Page 1 of 1

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◪ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. A9713-06-01

BORING 6

ELEV. (MSL.) -- DATE COMPLETED **1/3/18**

EQUIPMENT **HOLLOW STEM AUGER** BY: **RMA**

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT*)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					**AC: 4" BASE: 4"**			
					ARTIFICIAL FILL			
2					Silty Sand, loose, slightly moist, dark brown, fine- to medium-grained, trace clay.			
4								
	B6@5'					17	108.9	14.3
6					**ALLUVIUM**			
					Sand, poorly graded, medium dense, slightly moist, grayish brown, fine- to medium-grained, trace coarse-grained, trace silt.			
8				SP				
					Silty Sand, medium dense, slightly moist, grayish brown, fine-grained, trace clay.			
10	B6@10'					23	113.5	5.6
12				SM				
14								
	B6@15'					21	109.4	19.4
					Total depth of boring: 15.5 feet Fill to 5.5 feet. No groundwater encountered. Backfilled with soil cuttings and tamped. Asphalt patched. *Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.			

A9713-06-01 BORING LOGS.GPJ

Figure A6,
Log of Boring 6, Page 1 of 1

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◪ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

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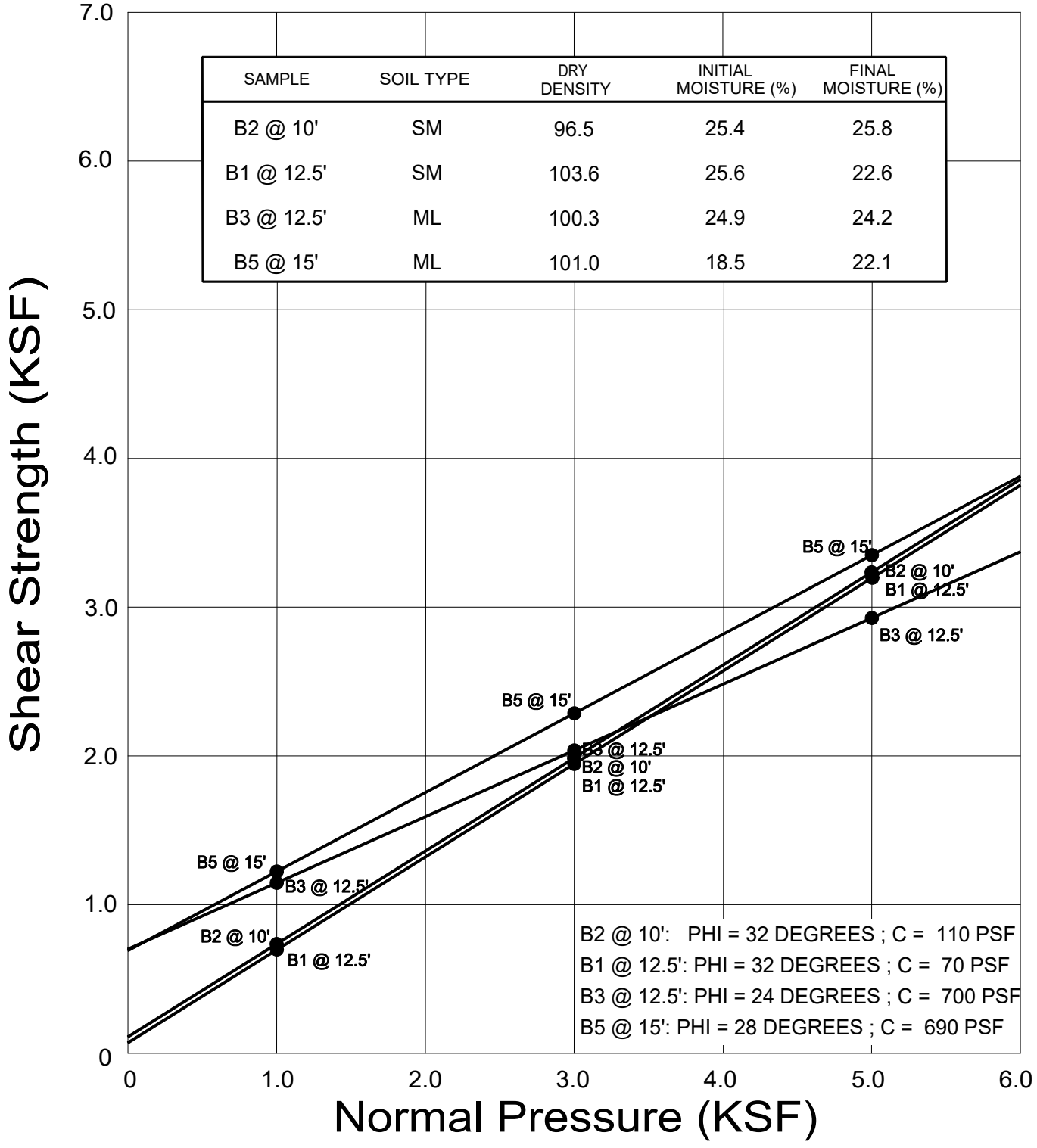
APPENDIX B

APPENDIX B

LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the "American Society for Testing and Materials (ASTM)", or other suggested procedures. Selected samples were tested for direct shear strength, consolidation and expansion characteristics, corrosivity, in-place dry density and moisture content. The results of the laboratory tests are summarized in Figures B1 through B8. The in-place dry density and moisture content of the samples tested are presented on the boring logs, Appendix A.

SAMPLE	SOIL TYPE	DRY DENSITY	INITIAL MOISTURE (%)	FINAL MOISTURE (%)
B2 @ 10'	SM	96.5	25.4	25.8
B1 @ 12.5'	SM	103.6	25.6	22.6
B3 @ 12.5'	ML	100.3	24.9	24.2
B5 @ 15'	ML	101.0	18.5	22.1



● Direct Shear, Saturated

GEOCON WEST, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS
3303 N. SAN FERNANDO BLVD. - SUITE 100 - BURBANK, CA 91504
PHONE (818) 841-8388 - FAX (818) 841-1704

DRAFTED BY: JTA | CHECKED BY: NDB

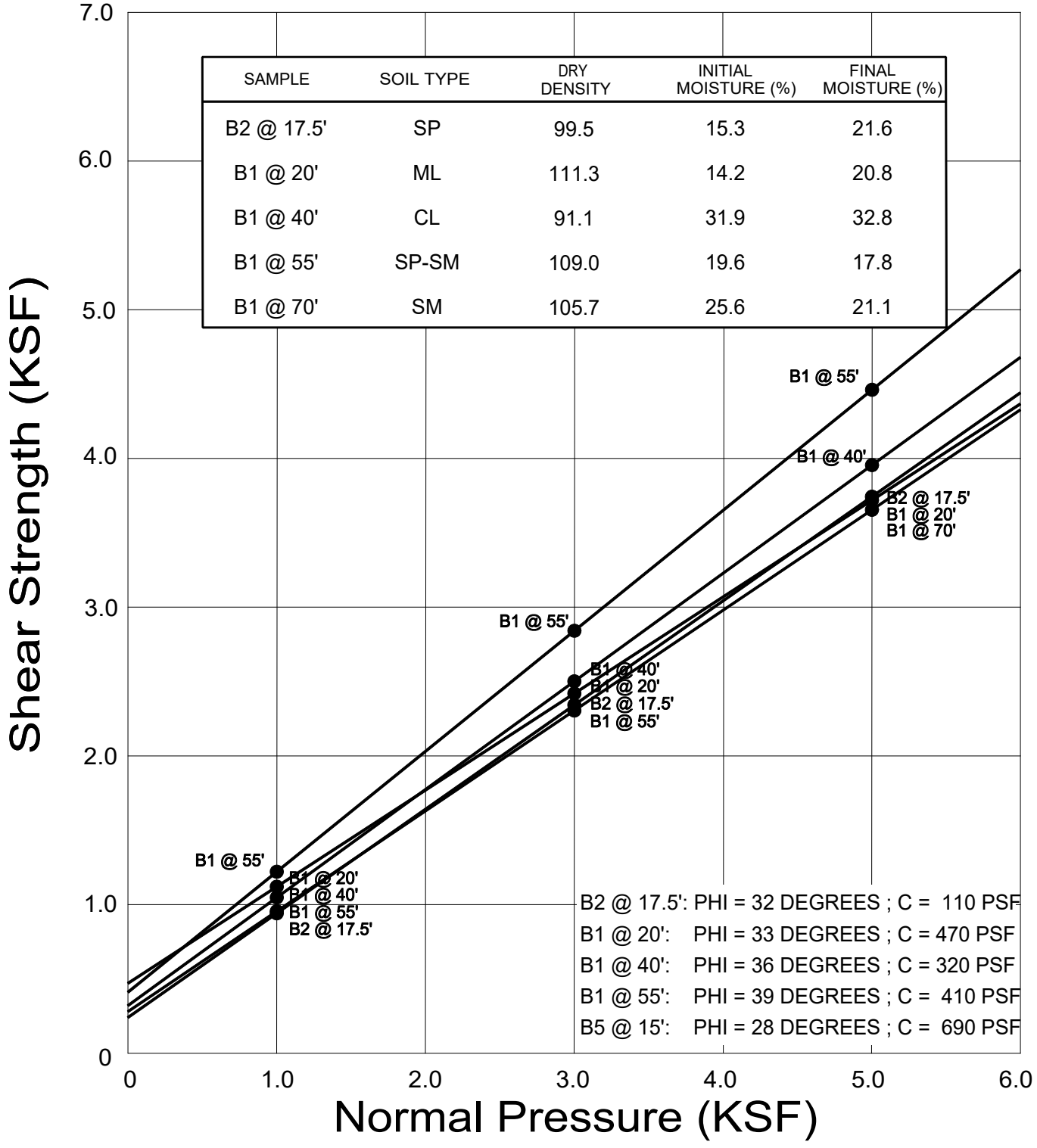
DIRECT SHEAR TEST RESULTS

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. B1

SAMPLE	SOIL TYPE	DRY DENSITY	INITIAL MOISTURE (%)	FINAL MOISTURE (%)
B2 @ 17.5'	SP	99.5	15.3	21.6
B1 @ 20'	ML	111.3	14.2	20.8
B1 @ 40'	CL	91.1	31.9	32.8
B1 @ 55'	SP-SM	109.0	19.6	17.8
B1 @ 70'	SM	105.7	25.6	21.1



● Direct Shear, Saturated

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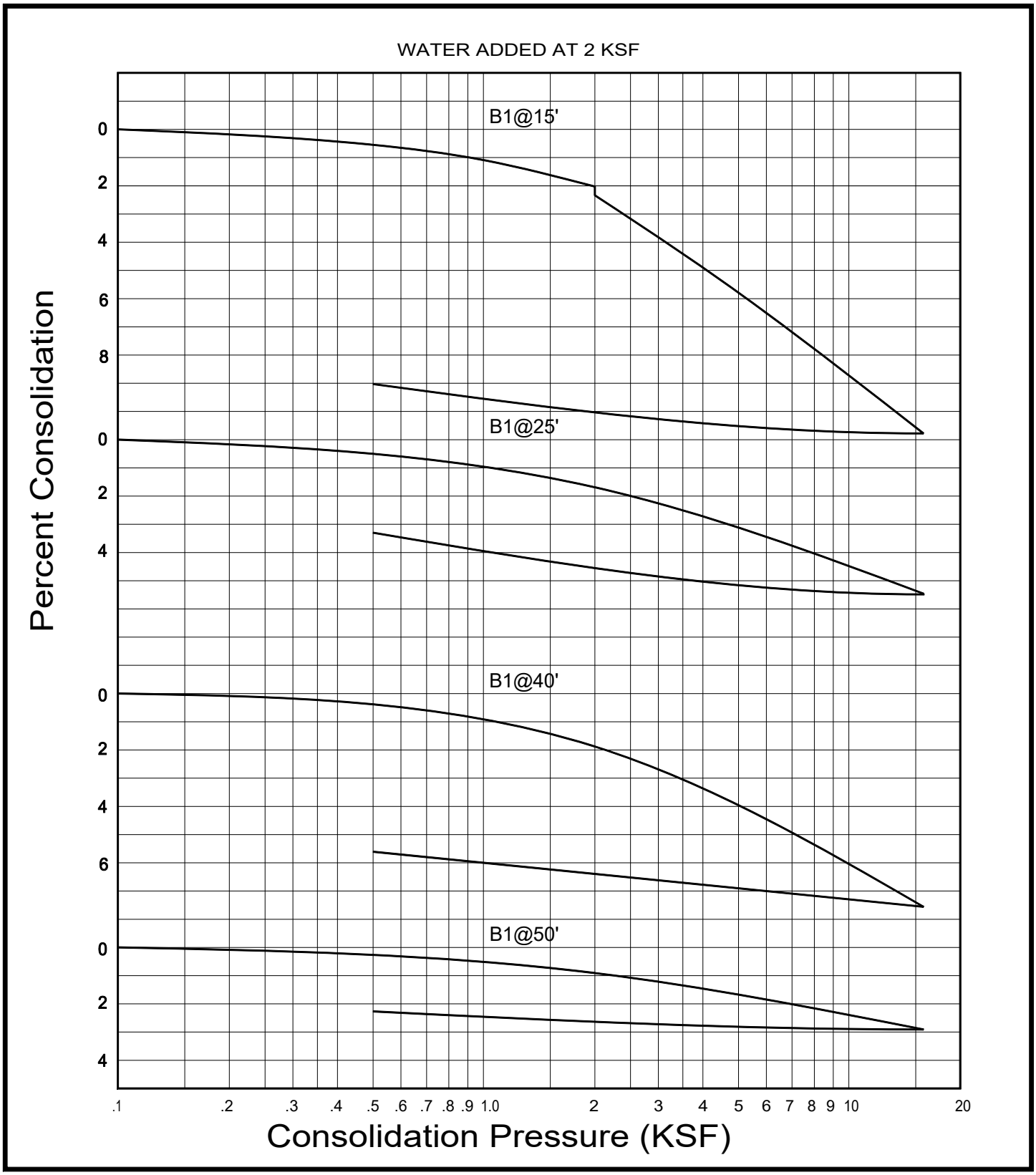
DIRECT SHEAR TEST RESULTS

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. B2



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CONSOLIDATION TEST RESULTS

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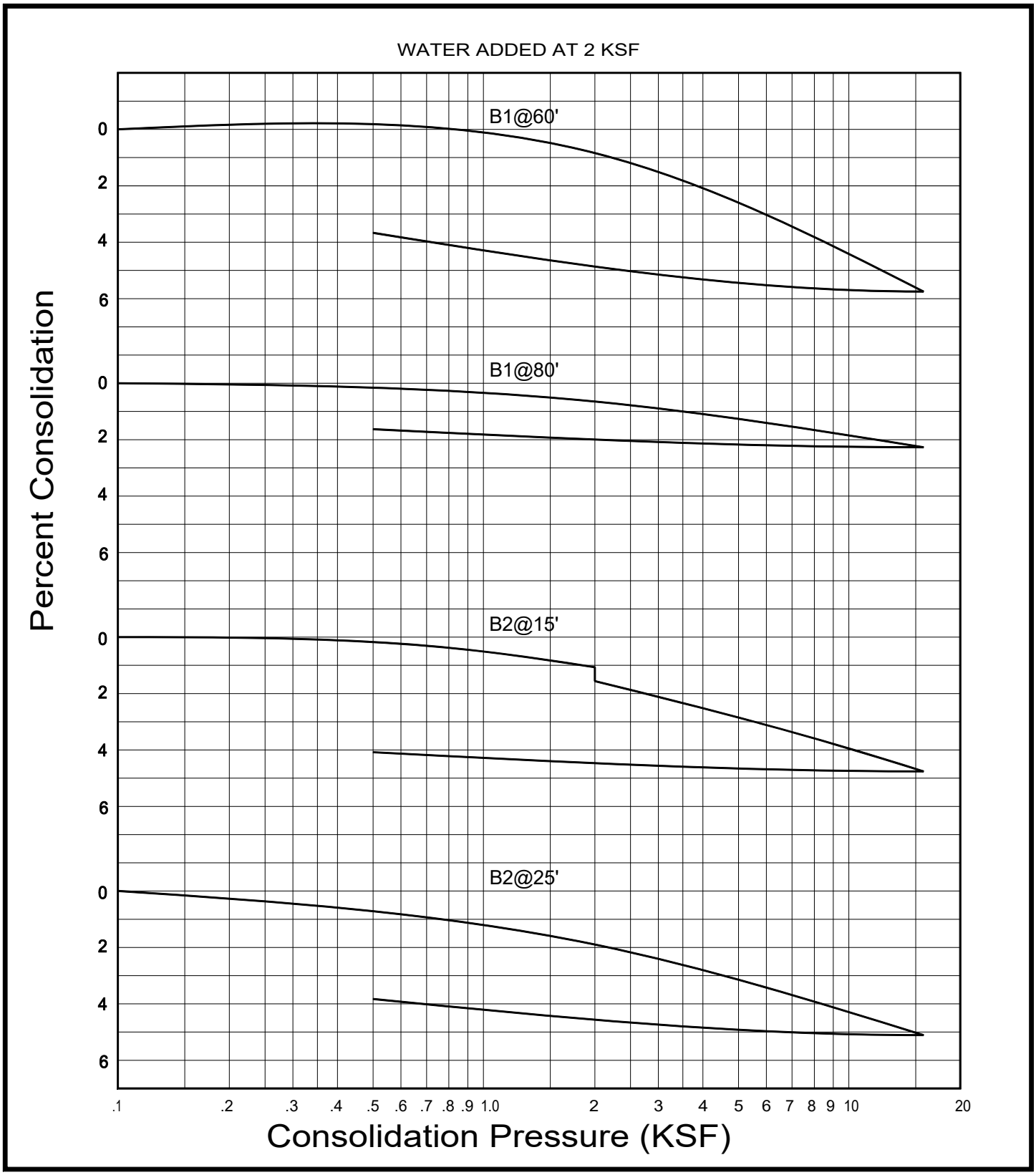
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. B3



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CONSOLIDATION TEST RESULTS

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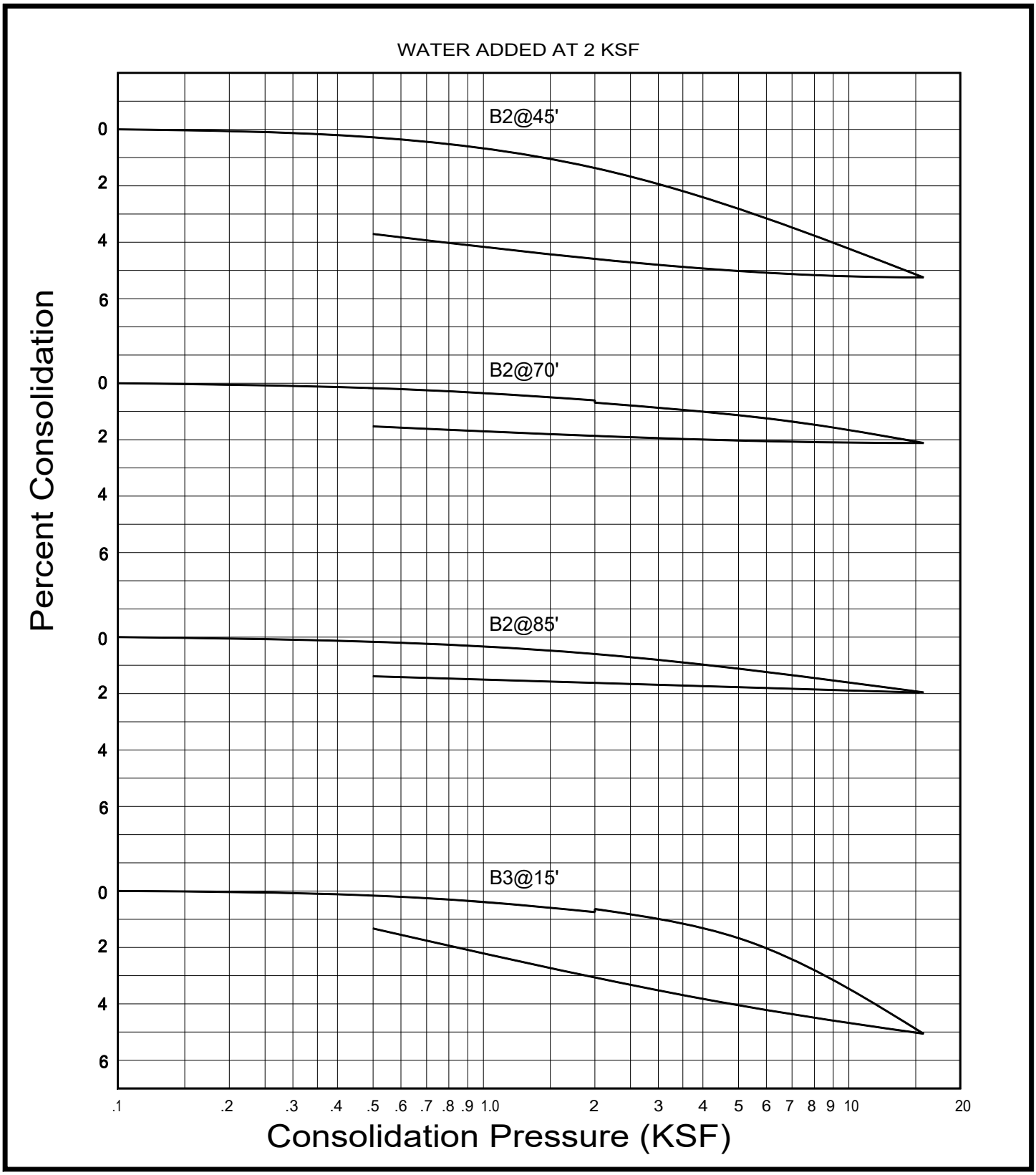
NOV 2018	PROJECT NO. A9713-06-01	FIG. B4



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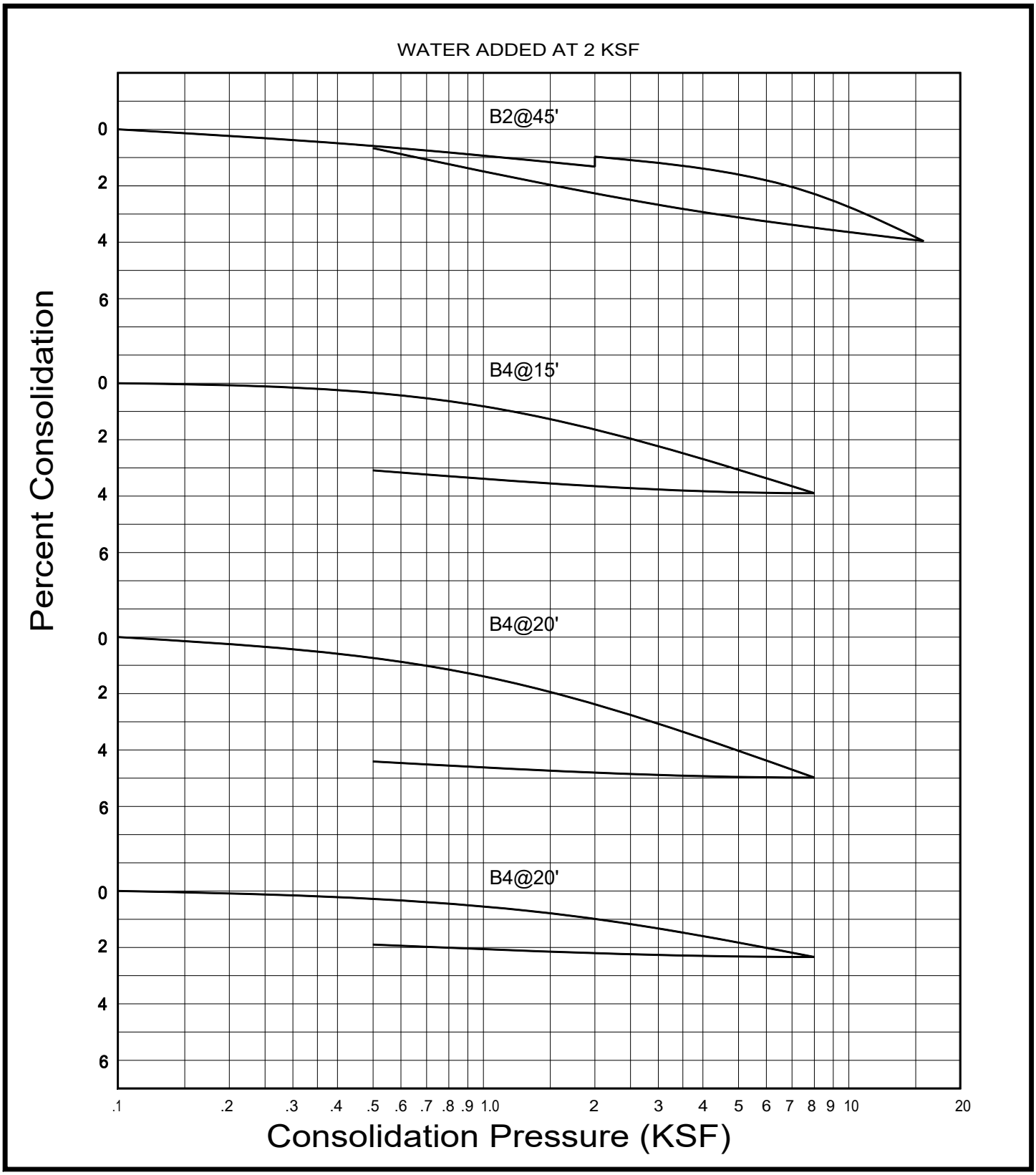
CONSOLIDATION TEST RESULTS

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. B5



GEOCON
WEST, INC.

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Drafted by: JTA	Checked by: NDB

CONSOLIDATION TEST RESULTS

HOLLAND ACQUISITION CO, LLC

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018	PROJECT NO. A9713-06-01	FIG. B6

SUMMARY OF LABORATORY EXPANSION INDEX TEST RESULTS
ASTM D 4829-11

Sample No.	Moisture Content (%)		Dry Density (pcf)	Expansion Index	*UBC Classification	**CBC Classification
	Before	After				
B3 @ 0-5'	8.0	14.6	116.0	17	Very Low	Non-Expansive

* Reference: 1997 Uniform Building Code, Table 18-I-B.

** Reference: 2016 California Building Code, Section 1803.5.3

SUMMARY OF LABORATORY MAXIMUM DENSITY AND AND OPTIMUM MOISTURE CONTENT TEST RESULTS
ASTM D 1557-12

Sample No.	Soil Description	Maximum Dry Density (pcf)	Optimum Moisture (%)
B3 @ 0-5'	Dark Brown Silty Sand	131.0	8.5

GEOCON
WEST, INC.
ENVIRONMENTAL GEOTECHNICAL MATERIALS
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LABORATORY TEST RESULTS

HOLLAND ACQUISITION CO, LLC
3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. B7

SUMMARY OF LABORATORY POTENTIAL OF HYDROGEN (pH) AND RESISTIVITY TEST RESULTS CALIFORNIA TEST NO. 643

Sample No.	pH	Resistivity (ohm centimeters)
B4 @ 20-25'	9.14	1800 (Corrosive)

SUMMARY OF LABORATORY CHLORIDE CONTENT TEST RESULTS EPA NO. 325.3

Sample No.	Chloride Ion Content (%)
B4 @ 20-25'	0.012

SUMMARY OF LABORATORY WATER SOLUBLE SULFATE TEST RESULTS CALIFORNIA TEST NO. 417

Sample No.	Water Soluble Sulfate (% SO_4)	Sulfate Exposure*
B4 @ 20-25'	0.002	Negligible

* Reference: 2016 California Building Code, Section 1904.3 and ACI 318-11 Section 4.3.

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CORROSIVITY TEST RESULTS

HOLLAND ACQUISITION CO, LLC
3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

NOV 2018 | PROJECT NO. A9713-06-01 | FIG. B8

APPENDIX C

APPENDIX C

PRIOR GEOTECHNICAL REPORT

PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED MIXED USE DEVELOPMENT SEC OF 3RD & FAIRFAX AVENUE LOS ANGELES, CALIFORNIA

PROJECT NO. 112-17043
JULY 31, 2017

Prepared for:

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July 31, 2017 KA Project No. 112-17043

PRELIMINARY GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED MIXED USE DEVELOPMENT SOUTHEAST CORNER OF WEST 3RD STREET AND FAIRFAX AVENUE LOS ANGELES, CALIFORNIA

INTRODUCTION

This report presents the results of our Preliminary Geotechnical Engineering Investigation for the Proposed Mixed Use Development to be located at the southeast corner of West 3rd Street and Fairfax Avenue, in the City of Los Angeles, California. Discussions regarding site conditions are presented herein, together with conclusions and recommendations pertaining to site preparation, Engineered Fill, utility trench backfill, drainage and landscaping, foundations, concrete floor slabs and exterior flatwork, retaining walls, and soil cement reactivity.

A site plan showing the approximate boring locations is presented following the text of this report. A description of the field investigation, boring logs, and the boring log legend are presented in Appendix A. Appendix A also contains a description of the laboratory testing phase of this study, along with the laboratory test results. Appendices B and C contain guides to earthwork and pavement specifications. When conflicts in the text of the report occur with the general specifications in the appendices, the recommendations in the text of the report have precedence.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the soil and groundwater conditions at the subject site, to make geotechnical engineering recommendations for use in design of specific construction elements, and to provide criteria for site preparation and Engineered Fill construction.

Our scope of services was outlined in our proposal dated June 2, 2017 (KA Proposal No. G17053CAC) and included the following:

- A site reconnaissance by a member of our engineering staff to evaluate the surface conditions at the project site.
- A field investigation consisting of drilling eleven (11) borings to depths ranging from approximately 4 to 80 feet for evaluation of the subsurface conditions at the project site.

- Performance of laboratory tests on representative soil samples obtained from the borings to evaluate the physical and index properties of the subsurface soils.

- Performance of two (2) infiltration tests at the subject site in order to determine an estimated infiltration rates for the near surface soil conditions.

- Evaluation of the data obtained from the investigation and an engineering analysis to provide recommendations for use in the project design and preparation of construction specifications.

- Preparation of this report summarizing the results, conclusions, recommendations, and findings of our investigation.

Environmental services, such as a chemical analysis of soil and groundwater for possible environmental contaminates, were not in our scope of services.

PROPOSED CONSTRUCTION

We understand that design of the proposed development is currently underway and as such, structural load information and other final details pertaining the structure are unavailable. On a preliminary basis, it is understood the development will consist of construction of a Mixed Use Residential and Commercial Development with a footprint of approximately 73,000 square feet. The proposed building is understood to include up to 6-stories above grade and up to 3 levels of subterranean parking. The proposed building is understood to be a wood and/or steel framed structure. The proposed subterranean parking is anticipated to be Portland cement and/or masonry construction. Footing loads are anticipated to be moderate. It is anticipated that the structures will utilize conventional shallow foundations or mat foundation systems and a concrete slab-on-grade. Additional improvements may include remodeling of existing structures located at the subject site, underground utilities, and pavement rehabilitation.

In the event, these structural or grading details are inconsistent with the final design criteria, the Soils Engineer should be notified so that we may update this writing as applicable.

SITE LOCATION AND SITE DESCRIPTION

The subject site is rectangular in shape and encompasses an area of approximately 7.3 acres. The site is located at the southeast corner of West 3rd Street and Fairfax Avenue in the City of Los Angeles, California.

The site is bound to the north by West 3rd Street and the Farmers Market beyond, to the east by South Ogden Drive and a retail center beyond, to the south by Hancock Park Elementary School, and to the west by South Fairfax Avenue and some retail beyond. Presently, the site is occupied by commercial, retail, restaurants, bank buildings, and a grade level parking lot.

Trees and shrubs are located within isolated landscape planters along the edge of the existing structure and in between parking stalls. Buried utilities are located throughout and along the perimeter of the site. The site is relatively flat and level with no major changes in grade.

GEOLOGIC SETTING

The subject property is located within the Los Angeles Coastal Plain, which is situated between the Santa Monica Mountains to the northwest, the San Gabriel Mountains to the northeast, the San Bernardino Mountains to the east, and the Pacific Ocean to the west and south. Unconsolidated materials found in the vicinity of the subject site are generally composed of alluvial deposits derived from the surrounding mountain ranges to the northwest, north, and northeast of the Los Angeles Coastal Plain. Sediments currently at or near the surface are believed to be of Quaternary Age (2 million years old or younger). Deposits encountered on the subject site during exploratory drilling are discussed in detail in this report.

The subject site occupies the westerly extent of the La Brea Plain. The La Brea Plain is a broad, slightly elevated, and dissected surface underlain by coalescing Quaternary age alluvial fan and flood plain deposits. These alluvial sediments were deposited on the underlying Tertiary-age shallow marine sedimentary bedrock formations. Faulting and folding of the bedrock over millions of years has formed structural traps where petroleum deposits have accumulated in anticlinal folds and along fault blocks. Several oil and gas fields developed within this portion of the Los Angeles Basin, including the nearby Salt Lake and South Salt Lake fields.

The oil deposits are found at depths exceeding about 1,000 feet. Crude oil and methane gas leaking from the petroleum deposits has migrated towards the ground surface through fractures and faults in the bedrock, permeating into the overlying alluvium. Upon reaching shallower depths, the lighter petroleum components are altered by evaporation and biologic processes resulting in a more viscous remnant tar deposit, such as those exposed at the La Brea Tar Pits east of the subject site.

The property is located on the Los Angeles Basin (Morton, et al., 1974). Southern California is seismically active and will experience future earthquakes that will affect the project site. The earthquakes are predominately generated by periodic slip along the northwesterly trending faults associated with the San Andreas Fault system and the east-west trending faults along the northern margin of the Los Angeles Basin. In addition to these probable earthquake sources, recent earthquakes in the region have occurred on previously unknown faults having no surface expression (1987 Whittier Narrows and the 1994 Northridge earthquakes). The Seismic hazard most likely to impact the site is groundshaking due to a large earthquake on one of the major active regional faults. The Santa Monica fault is the nearest active fault to the site, and is located approximately 0.8 miles to the north. The Hollywood, Newport-Inglewood, and Puente Hills faults are located approximately 2.1, 2.6, and 3.0 miles from the site, respectively. Secondary hazards of earthquakes include rupture, seiche, landslides, liquefaction, and subsidence. Since there are no known faults within the immediate area, ground rupture from surface faulting is not anticipated to be a potential hazard for the site. Seiche and landslides are not considered potential hazards for the site either. The area in consideration shows no mapped faults on-site according to maps prepared by the California Division of Mines and Geology (now known as the California Geologic Survey) and published by the International Conference of Building Officials (ICBO). No evidence of surface faulting was observed on the property during our reconnaissance.

FIELD AND LABORATORY INVESTIGATION

Subsurface soil conditions were explored by drilling eleven (11) borings to depths ranging from approximately 4 to 80 feet below existing site grade, using a truck-mounted drill rig. The approximate boring and bulk sample locations are shown on the site plan. During drilling operations, penetration tests were performed at regular intervals to evaluate the soil consistency and to obtain information regarding the engineering properties of the subsurface soils. Soil samples were retained for laboratory testing. The soils encountered were continuously examined and visually classified in accordance with the Unified Soil Classification System. A more detailed description of the field investigation is presented in Appendix A.

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory testing program was formulated with emphasis on the evaluation of natural moisture, density, gradation, shear strength, consolidation potential, expansion potential, and moisture-density relationships of the materials encountered. In addition, chemical tests were performed to evaluate the corrosivity of the soils to buried concrete and metal. Details of the laboratory test program and results of the laboratory tests are summarized in Appendix A. This information, along with the field observations, was used to prepare the final boring logs in Appendix A.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Based on our findings, the subsurface conditions encountered at the boring locations appear typical of those found in the geologic region of the site. The areas of the site not occupied by the existing structures are covered with approximately 4 inches of asphalt pavement underlain by approximately 6 inches of discernable base material. Below the existing pavements, stiff to very stiff sandy clay was encountered to depths of up to 19 feet below existing site grades. Below the near surface sandy clay soil, medium dense to dense silty sand was encountered from depths of approximately 14 feet below site grade to approximately 29 feet below site grade. Below the silty sand, medium dense to dense poorly-graded sand was encountered from depths of approximately 19 feet below site grade to approximately 24 feet below site grade. Below the poorly-graded sand, medium stiff to hard sandy silt was encountered from depths of approximately 24 feet below site grade to approximately 32 feet below site grade. Below the sandy silt, stiff to hard sandy clay was encountered from depths of approximately 29 feet below site grade to approximately 44 feet below site grade. Below the sandy clay, medium dense clayey sand was encountered from depths of approximately 43 feet below site grade to approximately 54 feet below site grade. Finally, below the clayey sand, medium dense asphalt sand was encountered from depths of approximately 53 feet below site grade to the maximum depth explored, 80 feet below site grade.

Penetration resistance, measured by the number of blows required to drive a Modified California sampler or Standard Penetration Test (SPT) ranged from 11 to 75 blows per foot. Dry densities ranged from approximately 102 to 124 pcf. Representative samples of the near surface soils consolidated approximately 1.0 to 2.0 percent under a 2 ksf load when saturated. Representative soil samples of near the surface had angles of internal friction of 27 and 28. Representative soil samples from 30 feet below site grades had angles of internal friction of 26 and 27 with a cohesion of 100 psf. Representative near surface samples were found to have expansive indices of 55 and 58.

For additional information about the soils encountered, please refer to the logs of borings in Appendix A.

GROUNDWATER

Test boring locations were checked for the presence of groundwater during and immediately following the drilling operations. Free groundwater was encountered at a depth of approximately 20 feet below existing site grade. Information provided by the California Geological Survey indicates that the historical high groundwater depth within the project site vicinity has been found on the order of 10 feet below existing site grades.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use and climatic conditions, as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

SOIL LIQUEFACTION

Soil liquefaction is a state of soil particle suspension caused by a complete loss of strength when the effective stress drops to zero. Liquefaction normally occurs under saturated conditions in soils such as sand in which the strength is purely frictional. However, liquefaction has occurred in soils other than clean sand. Liquefaction usually occurs under vibratory conditions such as those induced by a seismic event.

To evaluate the liquefaction potential of the site, the following items were evaluated:

1) Soil type

2) Groundwater depth

3) Relative density

4) Initial confining pressure

5) Intensity and duration of groundshaking

The soils encountered within a depth of 80 feet on the project site predominately consist of medium stiff to hard sandy clay and sandy silt, medium dense to very dense clayey sand and silty sand, and dense to very dense sand and asphalt sand. Moderate cohesion strength is associated with the clayey soils. Groundwater was encountered below the site at a depth of approximately 20 feet during subsurface exploration. Available groundwater depth mapping, as well as our experience in the area, indicates that historically groundwater has been located at depths on the order of 10 feet below grade in the general vicinity of the site.

The subject site is not located in an area designated by the State of California as a Seismic Hazard Zone. Due to the cohesive nature of the near surface soil encountered at the subject site and the relative

consistency of the underlying soil, liquefaction is not considered to be a significant concern for the subject site.

FAULT RUPTURE HAZARD ZONES

The Alquist-Priolo Geologic Hazard Zones Act went into effect in March, 1973. Since that time, the Act has been amended 11 times (Hart, 2007). The purpose of the Act, as provided in California Geologic Survey (CGS) Special Publication 42 (SP 42), is to "prohibit the location of most structures for human occupancy across the traces of active faults and to mitigate thereby the hazard of fault-rupture." The Act was renamed the Alquist-Priolo Earthquake Fault Zoning Act in 1994, and at that time, the originally designated "Special Studies Zones" was renamed the "Earthquake Fault Zones."

The subject site is located on the Hollywood Quadrangle, Earthquake Fault Zone Map, dated November 6, 2014. The nearest significant active fault is the Santa Monica Fault Zone, which is located approximately 0.8 miles from the site. The area in consideration shows no mapped faults on-site according to maps prepared by the California Geologic Survey. No evidence of surface faulting was observed on the property during our reconnaissance.

SEISMIC HAZARDS ZONES

In 1990, the California State Legislature passed the Seismic Hazard Mapping Act to protect public safety from the effects of strong shaking, liquefaction, landslides, or other ground failure, and other hazards caused by earthquakes. The Act requires that the State Geologist delineate various seismic hazard zones on Seismic Hazard Zones Maps. Specifically, the maps identify areas where soil liquefaction and earthquake-induced landslides are most likely to occur. A site-specific geotechnical evaluation is required prior to permitting most urban developments within the mapped zones. The Act also requires sellers of real property within the zones to disclose this fact to potential buyers. The subject site is located on the Hollywood Quadrangle, Seismic Hazard Zones Map, dated March 25, 1999. The subject site is not located in an area designated by the State of California as a Seismic Hazard Zone.

OTHER HAZARDS

Rockfall, Landslide, Slope Instability, and Debris Flow: The subject site is relatively flat and level. It is our understanding that there are no significant slopes proposed as part of the proposed development. Provided the recommendations presented in this report are implemented into the design and construction of the anticipated development, rockfalls, landslides, slope instability, and debris flows are not anticipated to pose a hazard to the subject site.

Seiches: Seiches are large waves generated within enclosed bodies of water. The site is not located in close proximity to any lakes or reservoirs. As such, seiches are not anticipated to pose a hazard to the subject site.

Tsunamis: Tsunamis are tidal waves generated by fault displacement or major ground movement. The site is several miles from the ocean. As such, tsunamis are not anticipated to pose a hazard to the subject site.

Hydroconsolidation: The near surface soils encountered at the subject site were found to be stiff to very stiff. The underlying native soils were found to be medium dense to dense. Provided the recommendations in this report are incorporated into the design and construction of the proposed development, hydroconsolidation is not anticipated to be a significant concern for the subject site.

SEISMIC SETTLEMENT

The native soils within the project site are not conducive to hydro-collapse due to the relatively dense soil conditions, low void ratio and moderate to high penetration resistance measured. Any loose fill materials at the site could be vulnerable to hydro-collapse. However, the hazard can be mitigated by following the design and construction recommendations of current and future Geotechnical Engineering Investigation Reports.

The proposed development will include grading of the subject site and surrounding areas to construct a relatively level site with subsurface parking. Retaining walls will be used in the proposed construction. Groundwater has historically been encountered at depths greater than 10 feet below existing site grade. Provided the planned grading complies with the current code requirements and the recommendations of current and future Geotechnical Engineering Investigation reports, the site will not likely be subject to lateral spreading hazards.

SOIL CORROSIVITY

Corrosion tests were performed to evaluate the soil corrosivity to the buried structures. The tests consisted of sulfate content, chloride content, and resistivity and the results of the tests are included as follows:

Parameter	Results	Test Method
Resistivity	3,100 ohm-cm	CA 643
Sulfate	160 ppm	CA 417
Chloride	139 ppm	CA 422
pH	6.9	EPA 9045C

EXPANSION POTENTIAL

The results of laboratory testing performed on near surface soil samples collected from the subject site indicate the expansion potential of the sandy clay soils were 55 and 58 and therefore classified as possessing a "medium" expansion potential. The California Building Code (CBC) defines soil with an expansion index greater than 20 as expansive. The near surface soils present at the subject site generally possess expansion potentials in excess of 20 and therefore should be considered expansive.

OIL WELLS

According to the data collected from the California Division of Oil, Gas & Geothermal Resources website, the subject site is located within the limits of the Salt Lake Oil Field. There are 2 reportedly abandoned wells on-site in the existing parking lot area. One well is located at the west portion of the site numbered 102 and the other well is located on the east portion of the site numbered 99. Both wells were reportedly operated by Chevron. No other abandoned or active oil wells are displayed within the area of the subject site. Although the likelihood of encountering an abandoned oil well is low, mitigation is recommended in the event an oil well is encountered.

METHANE GAS

The subject site is located within an area of known shallow methane accumulation. Information regarding methane gas mitigation should be obtained by consulting with an expert professional.

PETROLEUM IMPACTED GROUNDWATER

Shallow groundwater is present at the subject site. Groundwater will need to be collected during dewatering associated with the excavation of the underground parking basement. Due to the potential presence of asphalt sands and potential for impacted groundwater, extracted groundwater should be chemically analyzed in order to determine the appropriate treatment or disposal methods.

SUBSIDENCE

Subsidence of the ground surface can be caused by the removal of groundwater and/or petroleum from the subsurface. If in sufficient volumes, the extraction the pore fluid can cause permanent collapse of the pore space due to consolidation and potentially damage structural improvements.

The subject site is within the limits of the Salt Lake Oil Field, however evidence of subsidence in the vicinity of the subject site was not found due to the extraction of petroleum. Likewise, subsidence due to the extraction of free groundwater was not found.

Temporary dewatering is anticipated during the excavation and construction of the underground parking basement. Groundwater extracted during this temporary dewatering will be relatively small volumes to produce a localized drawdown around the excavation. The relatively stiff/dense soils below the proposed parking basement are unlikely to settle from the temporary dewatering. Therefore, the subsidence related to groundwater removal is not considered a significant impact to the subject site.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our field and laboratory investigations, along with previous geotechnical experience in the project area, the following is a summary of our evaluations, conclusions, and recommendations.

Administrative Summary

In brief, the subject site and soil conditions, with the exception to the relatively shallow groundwater, medium expansion potential of the on-site clayey soils, and existing development, appear to be conducive to the development of the project.

The organic-free, on-site, upper native soils are predominately sandy clay and clay. The underlying silty sand and sandy silt soils that do not contain clay will be suitable for reuse as Non-Expansive Engineered Fill provided they are cleansed of excessive organics and debris. The clayey soils will not be suitable for reuse as Non-Expansive Engineered Fill. The clayey soils should be at or above optimum moisture-content during mixing operations. These clayey soils will be suitable for reuse as General Engineered Fill, within flexible pavement areas, structural areas supported by structural slabs, and below 24 inches from finished grade in building areas, provided they are cleansed of excessive organics, debris, and moisture-conditioned to at least 2 percent above optimum moisture-content. It is recommended that additional testing be performed on the on-site soils and fill material to evaluate the physical and index properties prior to reuse as Engineered Fill.

The clayey soils appear to have a high swell potential. The clayey soils in their present condition present a minor to moderate hazard to construction in terms of possible post-construction movement of slab-on-grade construction. To reduce potential soil movement related to the swell potential of the clayey soils, it is recommended that slab-on-grade and exterior flatwork areas be supported by at least 24 inches of Non-Expansive Engineered Fill. The fill material should be a well-graded silty sand or sandy silt soil. A clean sand or very sandy soil is not acceptable for this purpose. A sandy soil will allow the surface water to drain into the expansive soils below, which may result in soil swelling. The replacement soils and/or upper 24 inches of Imported Fill soils should meet the specifications as described under the subheading Engineered Fill. The replacement soils should extend 5 feet beyond the perimeter of slab-on-grade areas. The non-expansive replacement soils should be compacted to at least 90 percent of the relative compaction based on ASTM Test Method D1557. The exposed native soils in the excavation should not be allowed to dry out and should be kept continually moist, prior to backfilling. In addition, it is recommended that slab-on-grade, continuous footings and slabs be nominally reinforced to reduce cracking and vertical off-set.

The site is presently occupied by an existing commercial plaza with as asphalt paved parking lot. Fill may be present at the site. Any fill soil encountered should be excavated and stockpiled so that the native soils can be properly prepared. The clayey soils encountered at the site will not be suitable for reuse as Non-Expansive Engineered Fill. However, these clayey soils will be suitable for reuse as General Engineered Fill, provided they are cleansed of excessive organics and debris, and are moisture-conditioned to a minimum of 2 percent above optimum moisture-content. Prior to fill placement Krazan & Associates, Inc. should inspect the bottom of the excavation to verify no additional removal will be required.

Trees and shrubs are located within the project site. Tree and shrub removal operations should include roots greater than ½ inch in diameter. The resulting excavations should be backfilled with Engineered Fill compacted to a minimum of 90 percent of maximum dry density based on ASTM Test Method D1557.

After completion of the recommended site preparation and over-excavation, the site should be suitable for shallow footing support. The proposed structure footings may be designed utilizing an allowable bearing pressure of 2,500 psf for dead-plus-live loads. Footings should have a minimum embedment of 24 inches. As an alternative, the proposed structure may be designed utilizing a mat or structural slab system.

Foundations supported at deeper elevations may require the use of a structural mat foundation. Deeper excavations will likely require dewatering and soil stabilization in order to address saturated soil conditions and provide for a stable foundation bearing grade.

For preliminary purposes, an allowable bearing pressure of 1,000 pounds per square foot may be used for design of the slab. For preliminary modeling purposes a vertical modulus of subgrade reaction (Kv1), also referred to as a soil spring, of 30 pounds per square inch per inch may be used for long term conditions. An increased modulus of 40 pounds per square inch per inch may be used for short term loading to evaluate punching shear at columns and walls. The slab design should ultimately limit slab bending or arching in the lightly loaded mid-slab areas between load bearing columns and walls. Based on the preliminary nature of the project design and a lack of formal design documents, these values should be considered preliminary and should be reevaluated during final design. The values should be reevaluated in order to determine soil support values appropriate for the actual design conditions.

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 47 pounds per square foot per foot of depth. Walls that are incapable of this deflection or walls that are fully constrained against deflection may be designed for an equivalent fluid at-rest pressure of 68 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

Groundwater Influence on Structures/Construction

During our field investigation, groundwater was encountered at depths of approximately 20 feet below existing grade. Based on the anticipated depth of construction, groundwater is anticipated to impact the proposed construction, dewatering techniques should be implemented during the excavation and construction of the proposed structures. Also, very moist soils were encountered at the subject site and should be anticipated during construction.

Historic groundwater levels are reported at depths on the order of 10 feet below existing site grade. Therefore, dewatering and/or waterproofing will be required should structures or excavations approach or extend below this depth. If groundwater is encountered, our firm should be consulted prior to dewatering the site. Installation of a standpipe piezometer is suggested prior to construction should groundwater levels be a concern. The Contractor should refer to the soil boring logs in Appendix A for available information regarding groundwater levels at specific locations.

In addition to the groundwater level, if earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated, pump, or not respond to densification techniques. Typical remedial measures include discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material; or mixing the soil with an approved lime or cement product. Our firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Site Preparation

General site clearing should include removal of vegetation; existing utilities; structures including foundations; basement walls and floors; existing stockpiled soil; trees and associated root systems; rubble; rubbish; and any loose and/or saturated materials. With the construction of a subterranean structure throughout the majority of the site and with the required excavation estimated to extend to a depth of approximately 30 feet below grade, we expect the remnants of any prior development, will be removed during the excavation of the site. The same is true for the root structures of the existing trees and any near-surface organic-laden soils. In the event that previously unidentified debris pits or underground utilities are encountered, those objects should be removed in their entirety. Any abandoned underground utilities that are exposed and found to extend into adjacent properties should be capped.

The site is presently occupied by an existing commercial plaza. Portions of the site are covered by concrete and asphaltic concrete pavement. Fill may be present at the site. Any fill soil encountered should be excavated and stockpiled so that the native soils can be properly prepared. The clayey soils encountered at the site will not be suitable for reuse as Non-Expansive Engineered Fill. However, these clayey soils will be suitable for reuse as General Engineered Fill, provided they are cleansed of excessive organics and debris, and are moisture-conditioned to a minimum of 2 percent above optimum moisture-content. Prior to fill placement Krazan & Associates, Inc. should inspect the bottom of the excavation to verify no additional removal will be required.

Existing structures are located within the site. Associated with these structures are buried structures such as utilities. Demolition activities should include proper removal of any buried structures. Any surface or buried structures, such as utilities or loosely backfilled excavations, encountered during construction should be properly removed and the resulting excavations backfilled. After demolition activities, it is recommended that these disturbed soils be removed and/or recompacted. Excavations, depressions, or soft and pliant areas extending below planned, finished subgrade levels should be cleaned to firm, undisturbed soil and backfilled with Engineered Fill. In general, any septic tanks, debris pits, cesspools, or similar structures should be entirely removed. Concrete footings should be removed to an equivalent depth of at least 3 feet below proposed footing elevations or as recommended by the Soils Engineer. Any other buried structures should be removed in accordance with the recommendations of the Soils Engineer. The resulting excavations should be backfilled with Engineered Fill.

Trees and shrubs are located within the project site. Tree and shrub removal operations should include roots greater than ½ inch in diameter. The resulting excavations should be backfilled with Engineered Fill compacted to a minimum of 90 percent of the maximum dry density based on ASTM Test Method D1557.

Following stripping, fill removal, and demolition activities, it is recommended that at a minimum, the upper 24 inches of exposed subgrade soils beneath the building pad areas be excavated, worked until uniform and free from large clods, moisture-conditioned to a minimum of 2 percent above optimum moisture-content, and recompacted to a minimum of 90 percent of maximum dry density based on ASTM Test Method D1557. In addition, remedial grading should be performed to a minimum of 24 inches below proposed foundation bearing grades. Within the pavement and exterior flatwork areas, the exposed subgrade should be excavated to a depth of 8 inches, worked until uniform and free from large clods and moisture-conditioned to a minimum of 2 percent above optimum moisture-content and recompacted to a minimum of 90 percent of the maximum dry density based on ASTM Test Method D1557. Prior to backfilling, the bottom of the excavation should be proof-rolled and observed by Krazan & Associates, Inc. to verify stability. This compaction effort should stabilize the upper soils and locate any unsuitable or pliant areas not found during our field investigation.

In areas where slab-on-grade construction will be utilized, it is recommended that the upper 24 inches of soil within proposed slab-on-grade and exterior flatwork areas consist of Non-Expansive Engineered Fill. The fill placement serves two functions: 1) it provides a uniform amount of soil which will more evenly distribute the soil pressures and 2) it reduces moisture-content fluctuation in the clayey material beneath the building area. The non-expansive fill material should be a well-graded silty sand or sandy silt soil. A clean sand or very sandy soil is not acceptable for this purpose. A sandy soil will allow the surface water to drain into the expansive clayey soil below, which may result in soil swelling. Imported Fill should be approved by the Soils Engineer prior to placement. The fill should be placed as specified as Engineered Fill.

The upper soils, during wet winter months, become very moist due to the absorptive characteristics of the soil. Earthwork operations performed during winter months may encounter very moist unstable soils, which may require removal to grade a stable building foundation. Project site winterization

consisting of placement of aggregate base and protecting exposed soils during the construction phase should be performed.

Historic groundwater levels are reported at depths on the order of 10 feet below existing site grade. Therefore, dewatering and/or waterproofing will be required should structures or excavations approach or extend below this depth. If groundwater is encountered, our firm should be consulted prior to dewatering the site. Installation of a standpipe piezometer is suggested prior to construction should groundwater levels be a concern. The Contractor should refer to the soil boring logs in Appendix A for available information regarding groundwater levels at specific locations.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction and stability of the material. The Soils Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section and the Engineered Fill section.

Engineered Fill

The organic-free, on-site, upper native soils are predominately sandy clay and clay. The underlying silty sand and sandy silt soils that do not contain clay will be suitable for reuse as Non-Expansive Engineered Fill provided they are cleansed of excessive organics and debris. The clayey soils will not be suitable for reuse as Non-Expansive Engineered Fill. The clayey soils should be at or above optimum moisture-content during mixing operations. These clayey soils will be suitable for reuse as General Engineered Fill, within flexible pavement areas, structural areas supported by structural slabs, and below 24 inches from finished grade in building areas, provided they are cleansed of excessive organics, debris, and moisture-conditioned to at least 2 percent above optimum moisture-content. It is recommended that additional testing be performed on the on-site soils and fill material to evaluate the physical and index properties prior to reuse as Engineered Fill.

The asphaltic concrete will not be suitable for reuse as Engineered Fill within the proposed building pad. However, fill intermixed with crushed asphaltic concrete may be used in paved areas provided they are cleansed of excessive organics, debris, and fragments larger than 4 inches in maximum dimension.

The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since he has complete control of the project site at that time.

Imported Non-Expansive Fill should consist of a well-graded, slightly cohesive, fine silty sand or sandy silt soil, with relatively impervious characteristics when compacted. This material should be approved by the Soils Engineer prior to use and should typically possess the following characteristics:

Percent Passing No. 200 Sieve	20 to 50
Plasticity Index	10 maximum
UBC Standard 29-2 Expansion Index	15 maximum

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned to a minimum of 2 percent above optimum moisture-context, and compacted to achieve at least 90 percent of the maximum density based on ASTM D1557. Additional lifts should not be placed if the previous lift did not meet the required dry density or if soil conditions are not stable.

Drainage and Landscaping

We understand that civil design practices typically include measures to address storm water quality issues. These often include the use of swales to allow for infiltration of the water into the site and to some extent bioremediation of the runoff water as it flows through the swale. Given the anticipated very low permeability of the clay soils at the site, relatively shallow groundwater, the limited exposed surface area, as well as the proposed subterranean structures, little to no infiltration will occur after wetting of the site. The storm water system should be designed for 100 percent run-off over the entire site.

The ground surface should slope away from building pad and pavement areas toward appropriate drop inlets or other surface drainage devices. In accordance with Section 1803 of the 2016 California Building Code, it is recommended that the ground surface adjacent to foundations be sloped a minimum of 5 percent for a minimum distance of 10 feet away from structures, or to an approved alternative means of drainage conveyance. Swales used for conveyance of drainage and located within 10 feet of foundations should be sloped a minimum of 2 percent. Impervious surfaces, such as pavement and exterior concrete flatwork, within 10 feet of building foundations should be sloped a minimum of 2 percent away from the structure. Drainage gradients should be maintained to carry all surface water to collection facilities and off-site. These grades should be maintained for the life of the project.

Slots or weep holes should be placed in drop inlets or other surface drainage devices in pavement areas to allow free drainage of adjoining base course materials. Cutoff walls should be installed at pavement edges adjacent to vehicular traffic areas. These walls should extend to a minimum depth of 12 inches below pavement subgrades to limit the amount of seepage water that can infiltrate the pavements. Where cutoff walls are undesirable subgrade drains can be constructed to transport excess water away from planters to drainage interceptors. If cutoff walls can be successfully used at the site, construction of subgrade drains is considered unnecessary.

Subsurface Drainage

With the presence of shallow groundwater and the proposed depth of the structure, implementation of a subsurface drainage system may not be practical. The structure should be designed with full waterproofing and to resist hydrostatic pressures. Retaining walls extending below the groundwater level should be fully waterproofed and designed to resist both soil and hydrostatic pressures, as well as

any applicable surcharge loads. If the final depth of the proposed structure approaches the depth to groundwater, floor slabs should also be waterproofed and be able to resist hydrostatic pressures. Waterproofing of the slab-on-grade (mat-slab foundation as discussed below) should consist of positive side waterproofing (located below the slab). This type of water proofing typically requires the placement of a waste or rat slab (nominal 2-inch concrete section) over the base of the excavation. The waterproofing membrane is then installed followed by a second waste or rat slab to protect the membrane. The membrane is wrapped up the sides of the foundation and is then lapped by the waterproofing membrane installed at the basement walls.

Temporary Excavation Stability

All excavations should comply with the current requirements of Occupational Safety and Health Administration (OSHA). All cuts greater than 4 feet in depth should be sloped or shored. Temporary excavations should be sloped at 1½:1 (horizontal to vertical) or flatter, up to a maximum depth of 8 feet, and at 2:1 (horizontal to vertical) to a maximum depth of 12 feet. Heavy construction equipment, building materials, excavated soil, and vehicular traffic should not be allowed within five feet of the top (edge) of the excavation. Where sloped excavations are not feasible due to site constraints, the excavations will require shoring. The design of the shoring system is normally the responsibility of the contractor or shoring designer, and therefore, is outside the scope of this report. The design of the temporary shoring should take into account lateral pressures exerted by the adjacent soil, and, where anticipated, surcharge loads due to adjacent buildings and any construction equipment or traffic expected to operate alongside the excavation.

The excavation/shoring recommendations provided herein are based on soil characteristics derived from our test borings within the area. Variations in soil conditions will likely be encountered during the excavations. Krazan & Associates, Inc. should be afforded the opportunity to provide field review to evaluate the actual conditions and account for field condition variations, not otherwise anticipated in the preparation of this recommendation.

Utility Trench Backfill

Utility trenches should be excavated according to accepted engineering practice following OSHA (Occupational Safety and Health Administration) standards by a Contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the Contractor. Traffic and vibration adjacent to trench walls should be minimized; cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced; especially during or following periods of precipitation.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 90 percent of the maximum dry density based on ASTM Test Method D1557. The utility trench backfill placed in pavement areas should be compacted to at least 90 percent of the maximum dry density based on ASTM Test Method D1557. Pipe bedding should be in accordance with pipe manufacturer's recommendations.

The Contractor is responsible for removing all water-sensitive soils from the trench regardless of the backfill location and compaction requirements. The Contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Foundations - Conventional

After completion of the recommended site preparation and over-excavation, the site should be suitable for shallow footing support within a depth of up to 10 feet below site grades. The proposed structures may be supported on a shallow foundation system bearing on a minimum of 2 feet of Engineered Fill. Spread and continuous footings can be designed for the following maximum allowable soil bearing pressures:

Load	Allowable Loading
Dead Load Only	1,875 psf
Dead-Plus-Live Load	2,500 psf
Total Load, Including Wind or Seismic Loads	3,320 psf

The footings should have a minimum embedment depth of 24 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 18 inches, regardless of load. Shallow foundation systems should be designed to tolerate the anticipated static and seismic settlement. The actual foundation design should be performed by the project structural engineer.

The footings should have a minimum embedment depth of 24 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 18 inches, regardless of load. The actual design of foundations should be performed by the project structural engineer. Shallow foundation systems should be designed to tolerate the anticipated static and seismic settlement.

Foundations supported at deeper elevations may require the use of a structural mat foundation. Deeper excavations will likely require dewatering and soil stabilization in order to address saturated soil conditions and provide for a stable foundation bearing grade.

The footing excavations should not be allowed to dry out any time prior to pouring concrete. It is recommended that footings be reinforced by at least one No. 4 reinforcing bar in both top and bottom. The actual design of foundations should be performed by the project structural engineer.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.25 acting between the base of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 200 pounds per cubic foot acting against the appropriate vertical footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. An 1/3 increase in the value above may be used for short duration, wind, or seismic loads. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

The total static movement is not expected to exceed ¾ inch. Differential static movement should be less than ½ inch. Most of the static settlement is expected to occur during construction, as the loads are applied. However, additional post-construction movement may occur if the foundation soils are flooded or saturated.

Foundations –Structural Mat Slab

The potential for structural damage as a result of differential settlement due to the potential effects of soil consolidation associated with applied structural loads can be reduced by supporting the building on a very stiff structural mat-slab foundation. The foundation should be designed to distribute the building loads uniformly onto the supporting subgrade. By designing a relatively stiff mat, the settlement of the structure will be relatively uniform. The foundation should be designed to be sufficiently rigid to prevent the introduction of excess stresses in the superstructure above the foundation.

The use of a sufficiently stiff to rigid structural mat-slab foundation will mitigate abrupt differential settlement but will not negate building settlement (total settlement). Where both total and differential settlements of the structure are to be fully mitigated a deep foundation system or extensive ground improvement would be required. Deep foundations might include driven piles, geopiers, or auger cast piles. Ground improvement could potentially include compaction grouting. Should a deep foundation or ground improvement option be desired, we should be contacted to discuss the options and to assist you with the preparation of additional geotechnical recommendations for use in site development. In the event that ground improvement or deep foundations are desired, additional subsurface exploration and laboratory testing of soil samples may be required.

Support of structures with a mat-slab foundation is a method used to aid in controlling differential settlement of structures over weak soils. The foundation distributes high point loads and line loads over a much broader area resulting in significantly reduced stresses and a more uniform loading condition over the building area. This reduces the differential settlement of walls and columns that would be expected when supported by dissimilarly loaded footings and footings of differing sizes, and can result in less total settlement of the superstructure when supported by the structural slab. The slab also provides increase confinement for sands below the surface reducing the potential for abrupt loss of support of foundation elements due to sand boils where shallow liquefiable sands are present.

The slab foundation should be designed to resist both bending and punching shear associated with the structural loads and design live loads. With the potential for arching or bending of the slab foundation to occur as a result of differential settlement, we recommend that the slab be designed to span over localized areas of settlement and to act as a cantilevered beam to support the perimeter of the building should localized settlement occur in areas of the perimeter.

For preliminary purposes, an allowable bearing pressure of 1,000 pounds per square foot may be used for design of the slab. For preliminary modeling purposes a vertical modulus of subgrade reaction (Kv1), also referred to as a soil spring, of 30 pounds per square inch per inch may be used for long term conditions. An increased modulus of 40 pounds per square inch per inch may be used for short term loading to evaluate punching shear at columns and walls. The slab design should ultimately limit slab bending or arching in the lightly loaded mid-slab areas between load bearing columns and walls. Based

on the preliminary nature of the project design and a lack of formal design documents, these values should be considered preliminary and should be reevaluated during final design. The values should be reevaluated in order to determine soil support values appropriate for the actual design conditions.

Floor Slabs and Exterior Flatwork

To reduce post-construction soil movement beneath floor slabs and exterior flatwork, it is recommended that mitigation measures be performed. For conventional slab-on-grade, it is recommended that the upper 24 inches of soil consist of Non-Expansive Engineered Fill.

Concrete slab-on-grade floors should be underlain by a water vapor retarder. The water vapor retarder should be installed in accordance with ASTM Specification E 1643-98. According to ASTM Guidelines, the water vapor retarder should consist of vapor retarder sheeting underlain by a minimum of 3 inches of compacted, clean, gravel of ¾-inch maximum size. To aid in concrete curing an optional 2 to 4 inches of granular fill may be placed on top of the vapor retarder. The granular fill should consist of damp clean sand with at least 10 to 30 percent of the sand passing the 100 sieve. The sand should be free of clay, silt, or organic material. Rock dust which is manufactured sand from rock crushing operations is typically suitable for the granular fill. This granular fill material should be compacted.

It is recommended that the concrete slabs be reinforced with at least No. 3 reinforcing bars, placed at 18 inches on center in each direction within the slabs middle third, to reduce crack separation and possible vertical offset at the cracks. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. Exterior finish grades should be sloped a minimum of 2 percent away from all interior slab areas to preclude ponding of water adjacent to the structures. All fills required to bring the building pads to grade should be Engineered Fills.

Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor can travel through the vapor membrane and penetrate the slab-on-grade. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To minimize moisture vapor intrusion, it is recommended that a vapor retarder be installed in accordance with ASTM guidelines. It is recommended that the utility trenches within the structure be compacted, as specified in our report, to minimize the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the building is recommended. Positive drainage should be established away from the structure and should be maintained throughout the life of the structure. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed. In addition, ventilation of the structure (i.e. ventilation fans) is recommended to reduce the accumulation of interior moisture.

Shoring and Excavation Stability

The locations of the planned subterranean structure relative to existing developments, including houses, apartment buildings, commercial structures, and roadways, that surround the subject site will need to be evaluated for possible impacts of the excavations on these structures. Due to the close proximity of several of these structures to the property lines, the relatively small setback of the structure from the property lines, as well as the expected depth of the excavation, sloping back of the excavation walls is not feasible and shoring will be required.

The design of the shoring system is normally the responsibility of the contractor or shoring designer, and therefore, is outside the scope of this report. However, the logs of borings presented with this report may be used for factual data such as soil types encountered at the location of each particular boring and at the indicated depths for a preliminary assessment of shoring requirements. Interpolation between the exploratory borings is at the user's own risk. Design work for shoring systems should be performed by an engineer with expertise in shoring systems. The design of the temporary shoring should take into account lateral pressures exerted by the adjacent soil, and, where present, surcharge loads due to adjacent embankments, buildings and any construction equipment or traffic expected to operate alongside the excavation.

Shoring on the sides of the excavation can be provided by means of a cantilever or restrained soldier beam or soldier pile and lagging wall. Lateral load resistance can be mobilized through the use of passive pressures on members that extend below the bottom of the excavation or interior bracing. Shoring must be designed with sufficient rigidity or must be supported by struts (bracing) to prevent deflection where in close proximity to structures. If the shoring is allowed to deflect, as occurs where designed as a cantilevered wall, settlement of the area behind the shoring will occur.

Whenever excavation is made adjacent to existing streets, utilities and structures, there is the potential for movement. The existing structures should be inspected and documented to preclude claims for damage or settlement that are not associated with the construction of the planned development. A monitoring program should be established so excessive movement is detected early. The monitoring program should include optical surveying of the shoring and adjacent streets and buildings to detect any horizontal or vertical movement.

Lateral Earth Pressures and Retaining Walls

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 47 pounds per square foot per foot of depth. Walls that are incapable of this deflection or walls that are fully constrained against deflection may be designed for an equivalent fluid at-rest pressure of 68 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways. All of the above earth pressures are unfactored and are, therefore, not inclusive of factors of safety.

To simulate the effect of earthquake loading on retaining walls, the walls may be evaluated based on an active lateral soil pressure calculated using an equivalent fluid weight of 58 pounds per cubic foot plus a horizontal seismic surcharge line force of 35H pounds per square foot of wall. The resultant of the lateral soil pressure should be applied at H/3 above the wall base and the resultant of the seismic surcharge force should be applied at a height of 0.6H above the wall base. For the purpose of this report, "H" is defined as the vertical height from the base of the wall to the ground surface above.

During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12 inches wide and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic concrete or other suitable backfill to minimize surface drainage into the wall drain system. The aggregate should conform to Class II permeable materials graded in accordance with the CalTrans Standard Specifications (May 2006). Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The pipes should be placed no higher than 6 inches above the heel of the wall in the center line of the drainage blanket and should have a minimum diameter of 4 inches. Collector pipes may be either slotted or perforated. Slots should be no wider than 1/8 inch in diameter, while perforations should be no more than ¼ inch in diameter. If retaining walls are less than 6 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 4-inch diameter holes (concrete walls) or unmortared head joints (masonry walls) and not be higher than 18 inches above the lowest adjacent grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to the CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

It is recommended that any uncertified fill material encountered within pavement areas, be removed and/or recompacted. The fill material should be moisture-conditioned to near optimum moisture-content and recompacted to a minimum of 90 percent of the maximum dry density based on ASTM Test Method D1557. As an alternative, the Owner may elect not to recompact the existing fill within paved areas. However, the Owner should be aware that the paved areas may settle which may require annual maintenance. At a minimum, it is recommended that the upper 12 inches of subgrade soil be moisture-conditioned as necessary and recompacted to a minimum of 90 percent of the maximum dry density based on ASTM Test Method D1557.

R-Value Test Results and Pavement Design

One bulk soil sample was obtained from the project site for R-Value testing at the location shown on the attached site plan. The sample was tested in accordance with the State of California Materials Manual Test Designation 301. Results of the test are as follows:

Sample	Depth	Description	R-Value at Equilibrium
1	0-24"	Sandy Clay (CL)	35

The test results are moderate and indicate good subgrade support characteristics under dynamic traffic loads. The following table shows the recommended pavement sections for various traffic indices.

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade**
4.0	2.0"	5.0"	12.0"
4.5	2.5"	5.0"	12.0"
5.0	2.5"	6.0"	12.0"
5.5	3.0"	6.0"	12.0"
6.0	3.0"	6.0"	12.0"
6.5	3.5"	7.0"	12.0"
7.0	4.0"	8.0"	12.0"
7.5	4.0"	8.0"	12.0"

**** 95% compaction based on ASTM Test Method D1557 or CAL 216***
***** 95% compaction based on ASTM Test Method D1557 or CAL 216***

If traffic indices are not available, an estimated (typical value) index of 4.5 may be used for light automobile traffic and an index of 7.0 may be used for light truck traffic. Following grading operations, it is recommended additional R-Value testing be performed to verify the design R-Value.

Seismic Parameters – 2016 California Building Code

The Site Class per Table 1613.5.2, of the 2016 California Building Code (2016 CBC) is based upon the site soil conditions. It is our opinion that Site Class D is most consistent with the subject site soil conditions. For seismic design of the structures based on the seismic provisions of the 2016 CBC, we recommend the following parameters:

Seismic Item	Value	CBC Reference
Site Class	D	Table 1613.5.2
Site Coefficient Fa	1.000	Table 1613.5.3 (1)
Ss	1.947	Figure 1613.5 (3)
SMS	1.947	Section 1613.5.3
SDS	1.298	Section 1613.5.4
Site Coefficient Fv	1.500	Table 1613.5.3 (2)
S1	0.814	Figure 1613.5 (4)
SM1	1.221	Section 1613.5.3
SD1	0.814	Section 1613.5.4

Infiltration Testing

The shallow soil conditions present at the subject site were evaluated by drilling shallow borings in the vicinity of the infiltration test. The borings drilled at the site indicated the subsurface soil conditions consisted of sandy clays.

Infiltration rates were determined using the results of open borehole infiltration testing performed at the subject site. Infiltration testing performed on the near surface sandy clay soil indicate infiltration rates of approximately 0.68 and 0.91 inch per hour. Based on the very low infiltration rates as well as relatively shallow historic groundwater elevations, the subsurface conditions encountered at the site may not be conducive to infiltration. Detailed results of the percolation tests and infiltration rates are attached in tabular format.

The soil percolation rates are based on tests conducted with clean water. The infiltration rates may vary with time as a result of soil clogging from water impurities. A factor of safety should be incorporated into the design of the percolation system to compensate for these factors as determined appropriate by the designer. In addition, periodic maintenance consisting of clearing the bottom of the system of clogged soils should be expected.

It is recommended that the location of the infiltration systems not be closer than ten feet (10') as measured laterally from the edge of the adjacent property line, ten feet (10') from the outside edge of any foundation and five (5') from the edge of any right-of way to the outside edges of the infiltration system.

If the infiltration location is within ten feet (10') of the proposed foundation, it is recommended that this infiltration system should be impervious from the finished ground surface to a depth that will achieve a diagonal distance of a minimum of ten feet (10') below the bottom of the closest footing in the project.

Soil Cement Reactivity

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete (or stucco) and the soil. HUD/FHA and CBC have developed criteria for evaluation of sulfate levels and how they relate to cement reactivity with soil and/or water.

A soil sample was obtained from the site and tested in accordance with State of California Materials Manual Test Designation 417. The sulfate concentration detected from the soil sample indicated a moderate sulfate exposure value as established by HUD/FHA and CBC. Therefore, it is recommended that concrete in contact with soil utilize Type II Cement and have a minimum compressive strength of 4,000 psi.

Electrical resistivity testing of the soil indicates that the onsite soils may have a moderate potential for metal loss from electrochemical corrosion process. A qualified corrosion engineer should be consulted regarding the corrosion effects of the onsite soils on underground metal utilities.

Compacted Material Acceptance

Compaction specifications are not the only criteria for acceptance of the site grading or other such activities. However, the compaction test is the most universally recognized test method for assessing the performance of the Grading Contractor. The numerical test results from the compaction test cannot solely be used to predict the engineering performance of the compacted material. Therefore, the acceptance of compacted materials will also be dependent on the stability of that material. The Soils Engineer has the option of rejecting any compacted material regardless of the degree of compaction if that material is considered to be unstable or if future instability is suspected. A specific example of rejection of fill material passing the required percent compaction is a fill which has been compacted with an in-situ moisture-content significantly less than optimum moisture. This type of dry fill (brittle fill) is susceptible to future settlement if it becomes saturated or flooded.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions are consistent with the exploratory fieldwork. This activity is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of these recommendations is incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor.

LIMITATIONS

Soils Engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences advance. Although your site was analyzed using the most appropriate and most current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to advancements in the field of Soils Engineering, physical changes in the site, either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the soils report is completed may require the soils report to be professionally reviewed. In light of this, the owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that 2 years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those disclosed during our field investigation. If any variations or undesirable conditions are encountered during construction, the Soils Engineer should be notified so that supplemental recommendations may be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may not be valid. The Soils Engineer should be notified of any changes so the recommendations may be reviewed and re-evaluated.

This report is a Geotechnical Engineering Investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potentially hazardous and/or toxic assessment.

The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (951) 273-1011.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.





James Kellogg
Managing Engineer
RGE No. 2902/RCE No. 65092

Jorge A. Pelayo, EIT
Staff Engineer

References

California Department of Conservation Division of Mines and Geology (DMG) (1997), Guidelines for Evaluating and Mitigating Seismic Hazards in California: DMG Special Publication 117.

Martin, G.W., and Lew, M., ed., 1999, Recommended Procedures For Implementation Of DMG Special Publication 117 Guidelines for Evaluating and Mitigating Seismic Hazards in California, Southern California Earthquake Center, University of Southern California.

Robertson, P.K., and Wride, C.E. (1997). "Cyclic liquefaction and its evaluation based on the SPT and CPT," Proc. NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Youd, T.L., and Idriss, I.M, eds., Technical Report NCEER 97-0022, pp.41-88.

Seed, R.B., Cetin, K.O., Moss, R.E.S. , Kammerer, A.M., Wu, J., Pestana, J.M., and Riemer, M.F., 2001, Recent Advances In Soil Liquefaction Engineering And Seismic Site Response Evaluation, in Proceedings: Fourth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, Paper No. SPL-2

Tokimatsu, K., and Seed, H.B., 1987, Evaluation of Settlements in Sands due to Earthquake Shaking: ASCE Journal of Geotechnical Engineering, Vol. 113, No. GT8, pp. 861-878.

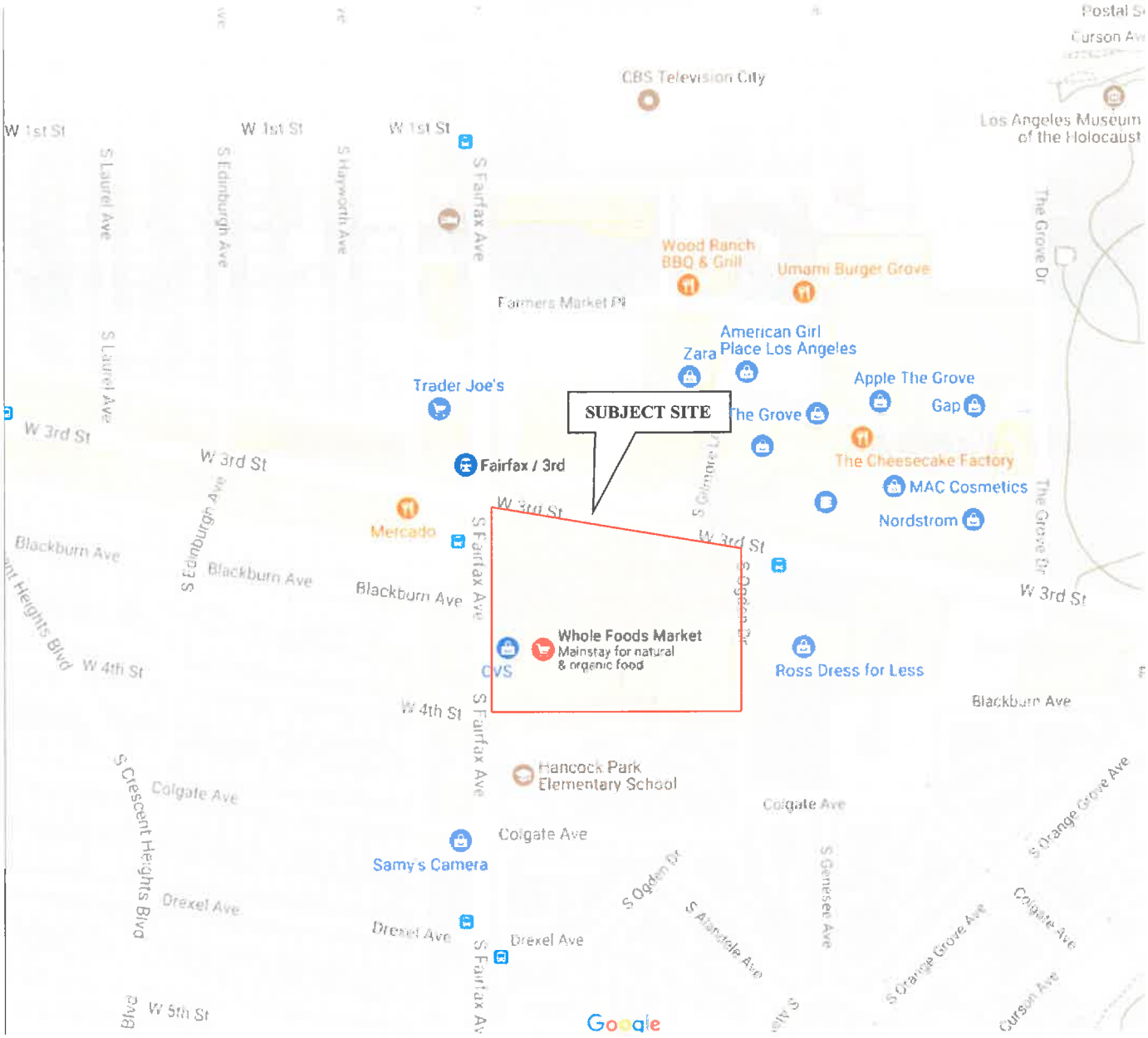
Youd, T.L., and Garris, C.T., 1995, Liquefaction-Induced Ground-Surface Disruption, ASCE Journal of Geotechnical Engineering, Nov. 1995, pp. 805-809

Youd, T.L., and Idriss, I.M., ed, 1997, Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils, Technical Report NCEER-97-0022, 276 pp.

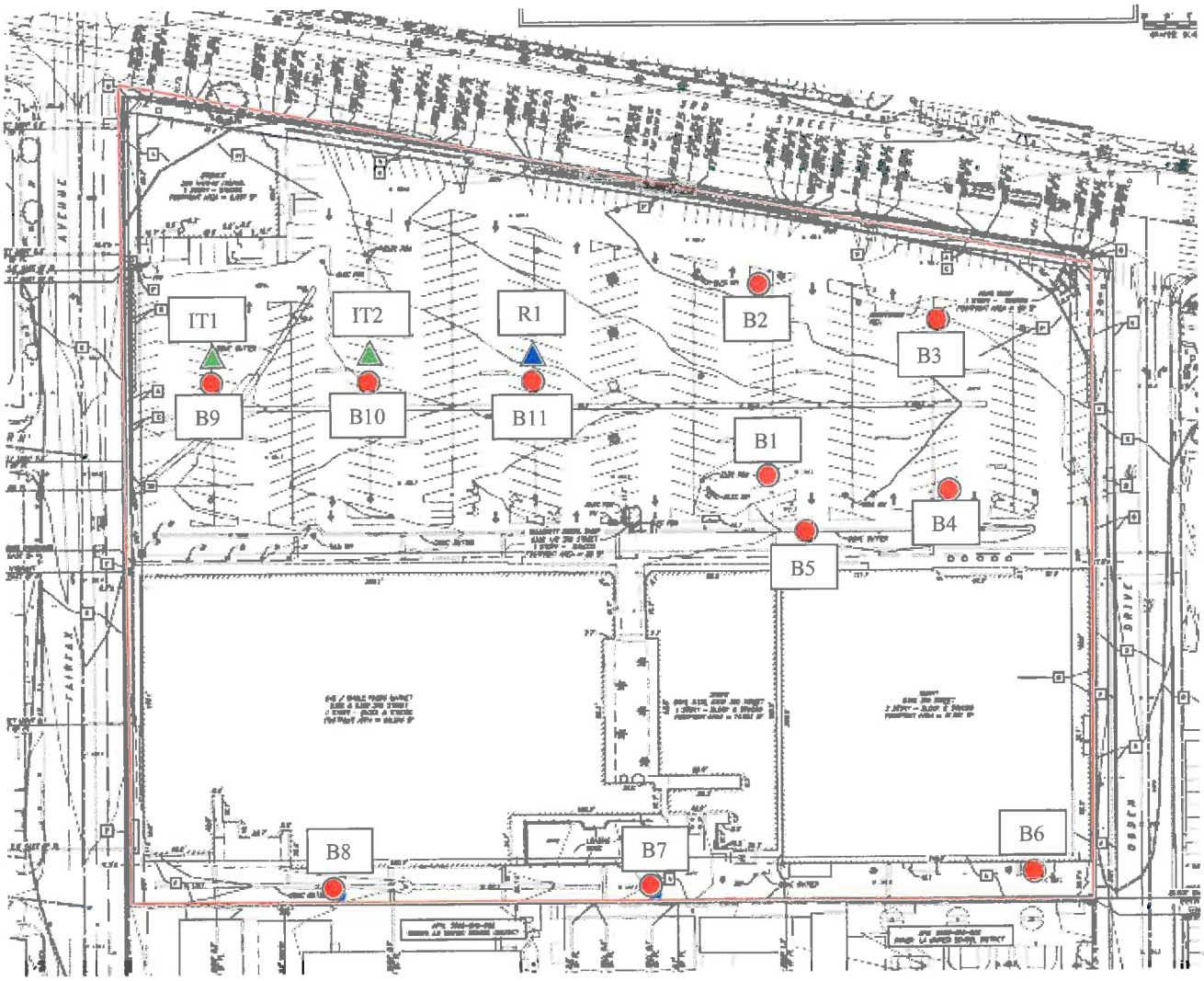
Youd, T.L., and Idriss, I.M., 2001, Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshop on Evaluation of Liquefaction Resistance of Soils, ASCE Journal of Geotechnical and Geoenvironmental Engineering, pp 297-301.

Youd, T. L., et al, 2002, Revised Multilinear Regression Equations For Prediction Of Lateral Spread Displacement, 26th Annual ASCE Los Angeles Geotechnical Spring Seminar- April 30, 2003.

Figures



VICINITY MAP	Scale: NTS	Date: June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	Drawn by: SK	Approved by: JK	
		Figure No. 1	

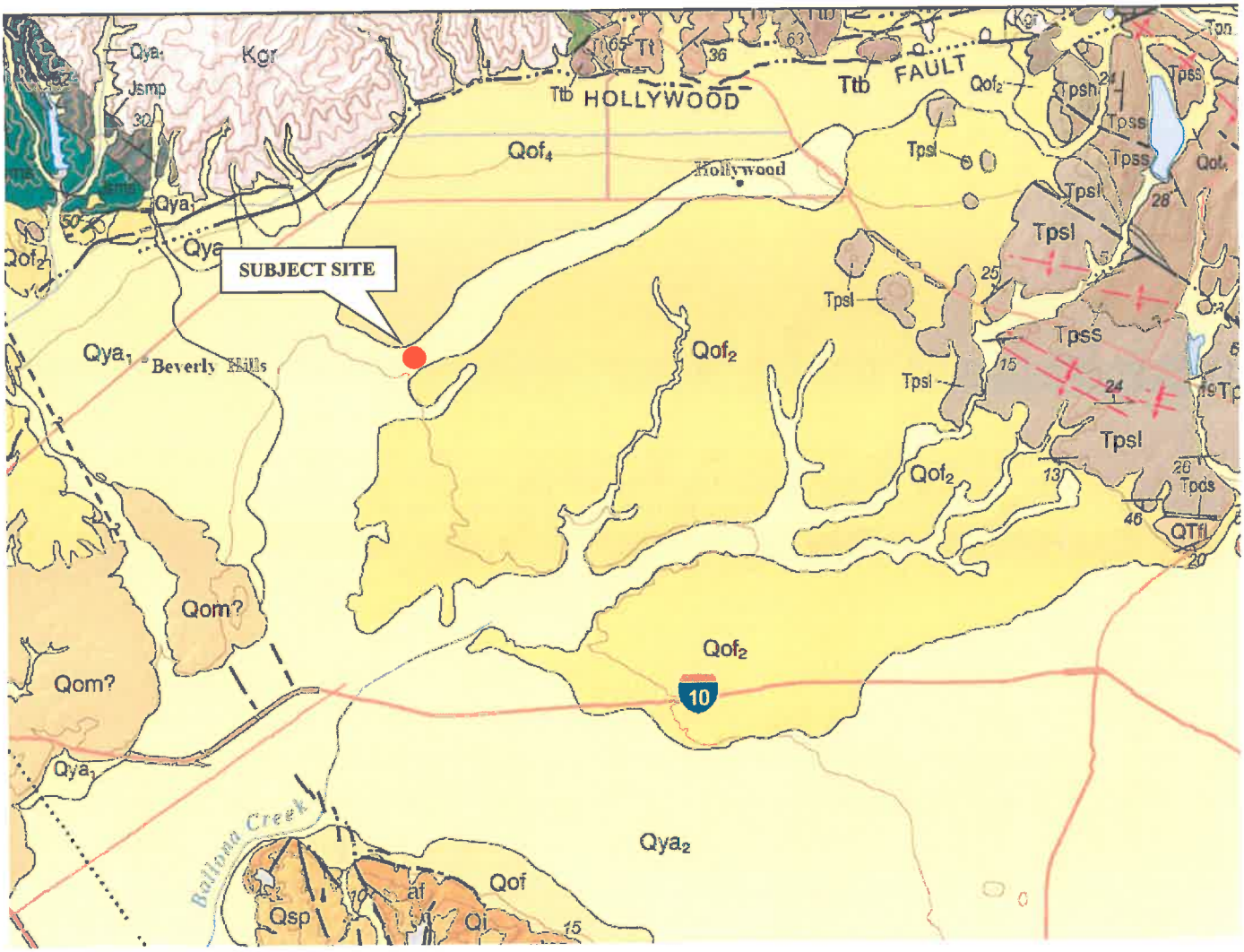


APPROXIMATE BORING LOCATION

APPROXIMATE R-VALUE LOCATION

APPROXIMATE INFILTRATION TEST LOCATION

SITE MAP	**Scale:** NTS	**Date:** June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	**Drawn by:** SK	**Approved by:** JK	
		Figure No. 2	



Old alluvium

Qoa	Undivided
Qoa_3	Unit 3
Qoa_2	Unit 2
Qoa_1	Unit 1

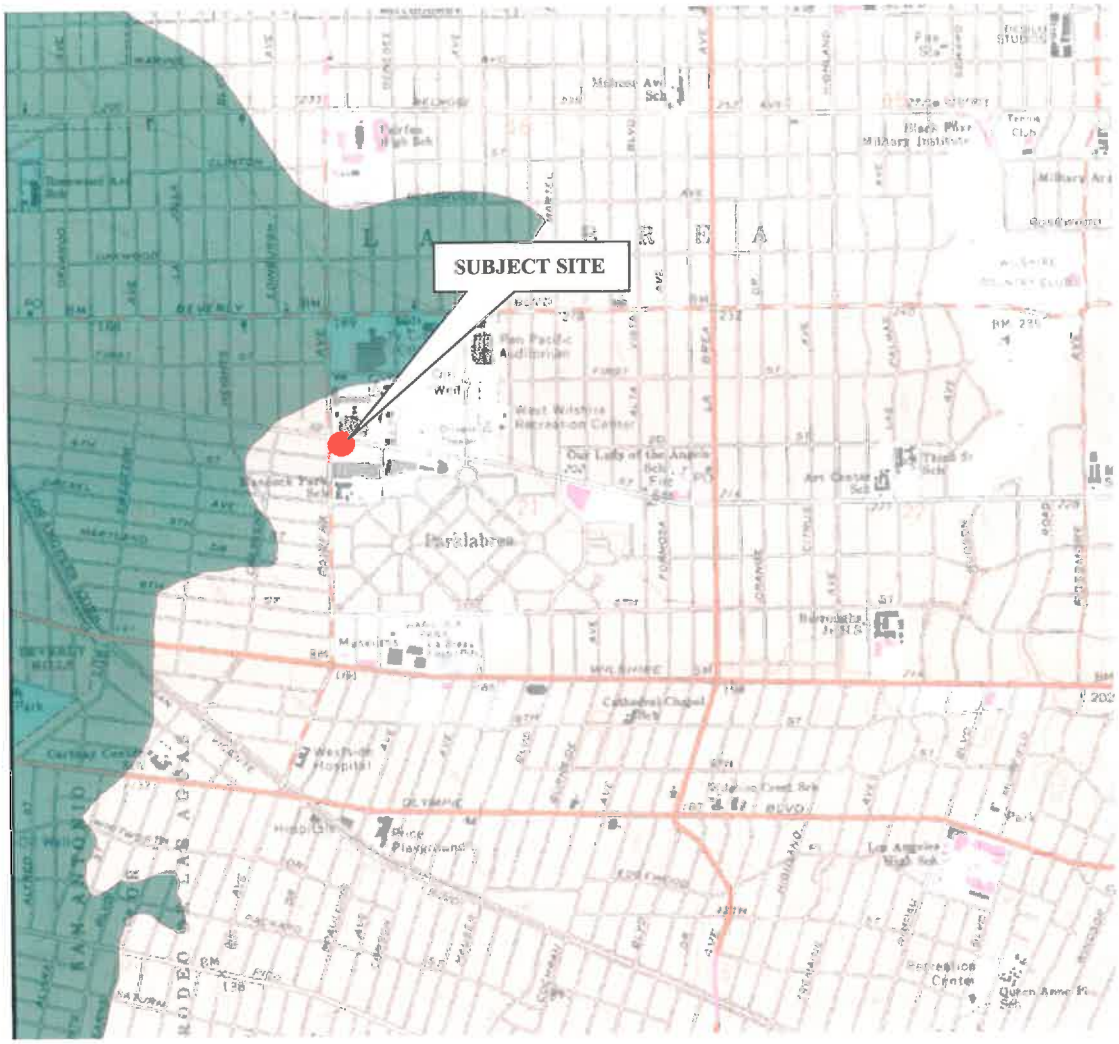
Old alluvial fan deposits

Qof	Undivided
Qof_4	Unit 4
Qof_3	Unit 3
Qof_2	Unit 2
Qof_1	Unit 1

N
W E
S

Source: USGS Geologic Map of the Los Angeles 30' X 60' Quadrangle

GEOLOGIC MAP	Scale: NTS	Date: June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	Drawn by: SK	Approved by: JK	
		Figure No. 3	



MAP EXPLANATION

ALQUIST-PRIOLO EARTHQUAKE FAULT ZONES

Earthquake Fault Zones
Zone boundaries are delineated by straight-line segments; the boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 2621.5(a) would be required.

Active Fault Traces
Faults considered to have been active during Holocene time and to have potential for surface rupture: Solid Line in Black or Red where Accurately Located; Long Dash in Black or Solid Line in Purple where Approximately Located; Short Dash in Black or Solid Line in Orange where Inferred; Dotted Line in Black or Solid Line in Rose where Concealed; Query (?) indicates additional uncertainty.

SEISMIC HAZARD ZONES

Liquefaction Zones
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslide Zones
Areas where previous occurrence of landside movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

N
W E
S

Source: State of California Seismic Hazards Map, Hollywood Quadrangle

LIQUEFACTION HAZARD ZONE MAP	**Scale:** NTS	**Date:** June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	**Drawn by:** SK	**Approved by:** JK	
		Figure No. 4	



Legend:

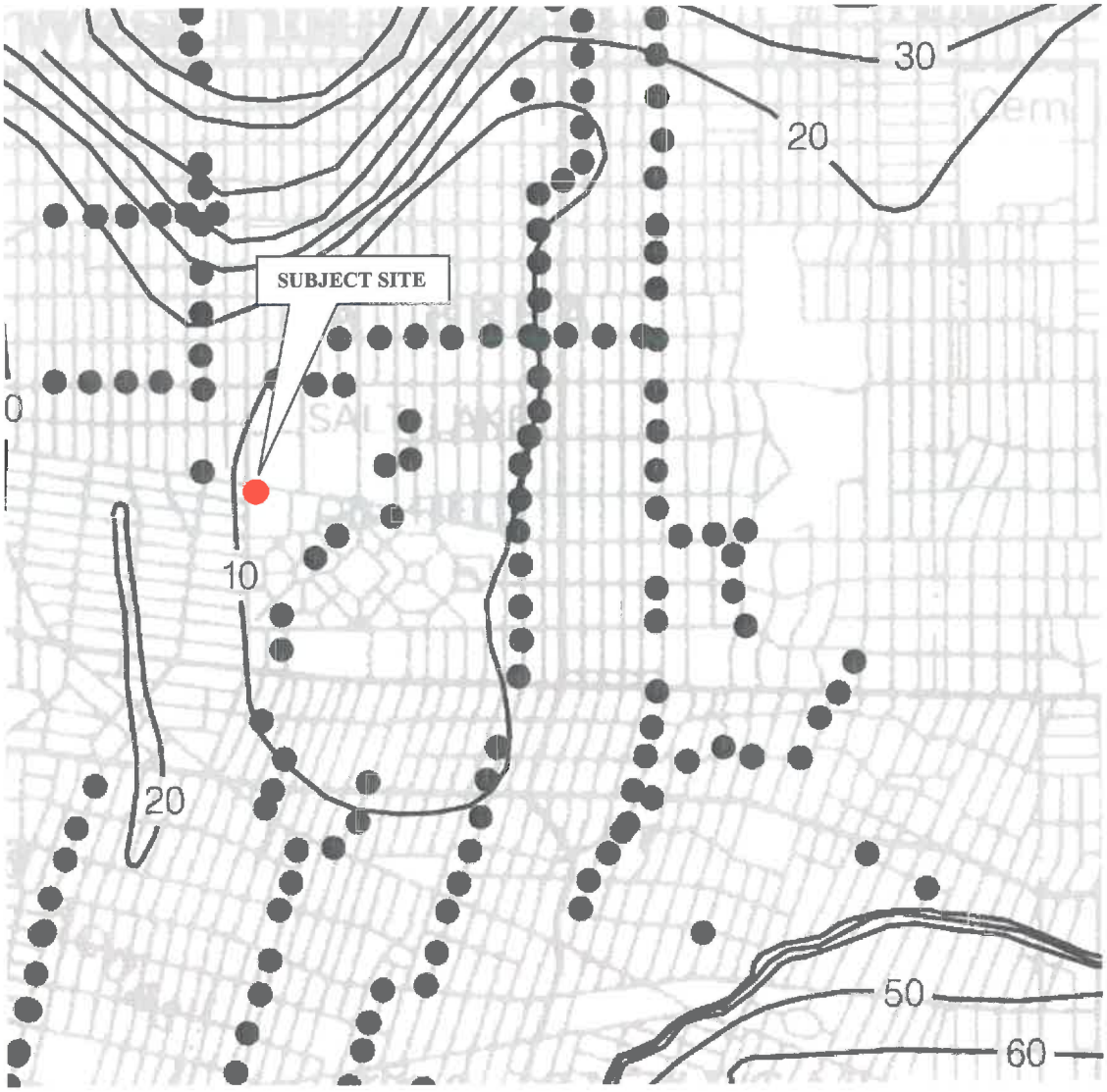
Well Types:

- New
- Active Producer
- Active Injector
- Dry Hole
- Plugged
- Geothermal
- Notice & Permit
- Enhanced Oil Recovery

N
W E
S

Source: Map retrieved on 07/03/17 at Division of Oil, Gas & Geothermal Resources Well Finder

OIL WELL MAP	**Scale:** NTS	**Date:** June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	**Drawn by:** SK	**Approved by:** JK	
		Figure No. 5	



EXPLANATION

20 — Contour interval depth (in feet) to historic high groundwater.

10 — Depth (in feet) to historic high groundwater within defined area.

● Borehole Location

N
W
E
S

Source: State of California Seismic Hazards Map, Hollywood Quadrangle

HISTORICAL HIGH GROUNDWATER	**Scale:** NTS	**Date:** June 2017	
PROPOSED MIXED USE DEVELOPMENT SEC 3rd & FAIRFAX LOS ANGELES, CALIFORNIA	**Drawn by:** SK	**Approved by:** JK	
		Figure No. 6	

Appendix A

Log of Borings & Laboratory Testing

APPENDIX A

FIELD AND LABORATORY INVESTIGATIONS

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploratory program. Eleven 6½-inch diameter exploratory borings were advanced. The boring locations are shown on the attached site plan.

The soils encountered were logged in the field during the exploration and with supplementary laboratory test data are described in accordance with the Unified Soil Classification System.

Modified standard penetration tests and standard penetration tests were performed at selected depths. This test represents the resistance to driving a 2½-inch and 1½-inch diameter split barrel sampler, respectively. The driving energy was provided by a hammer weighing 140 pounds falling 30 inches. Relatively undisturbed soil samples were obtained while performing this test. Bag samples of the disturbed soil were obtained from the auger cuttings. The modified standard penetration tests are identified in the sample type on the boring logs with a full shaded in block. The standard penetration tests are identified in the sample type on the boring logs with one-half of the block shaded. All samples were returned to our Fresno laboratory for evaluation.

Laboratory Investigation

The laboratory investigation was programmed to determine the physical and mechanical properties of the foundation soil underlying the site. Test results were used as criteria for determining the engineering suitability of the surface and subsurface materials encountered.

In-situ moisture content, dry density, consolidation, direct shear, and sieve analysis tests were completed for the undisturbed samples representative of the subsurface material. Expansion index and R-value tests were completed for select bag samples obtained from the auger cuttings. These tests, supplemented by visual observation, comprised the basis for our evaluation of the site material.

The logs of the exploratory borings and laboratory determinations are presented in this Appendix.

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)	SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)			
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit 50% or greater		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils

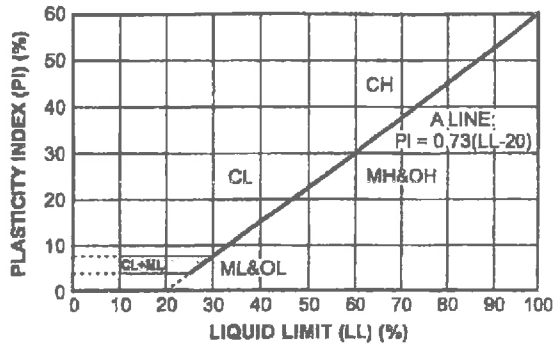
CONSISTENCY CLASSIFICATION

Description	Blows per Foot
Granular Soils	
Very Loose	< 5
Loose	5 – 15
Medium Dense	16 – 40
Dense	41 – 65
Very Dense	> 65
Cohesive Soils	
Very Soft	< 3
Soft	3 – 5
Firm	6 – 10
Stiff	11 – 20
Very Stiff	21 – 40
Hard	> 40

GRAIN SIZE CLASSIFICATION

Grain Type	*Standard Sieve Size*	*Grain Size in Millimeters*
Boulders	Above 12 inches	Above 305
Cobbles	12 to 13 inches	305 to 76.2
Gravel	3 inches to No. 4	76.2 to 4.76
Coarse-grained	3 to ¾ inches	76.2 to 19.1
Fine-grained	¾ inches to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
Coarse-grained	No. 4 to No. 10	4.76 to 2.00
Medium-grained	No. 10 to No. 40	2.00 to 0.042
Fine-grained	No. 40 to No. 200	0.042 to 0.074
Silt and Clay	Below No. 200	Below 0.074

PLASTICITY CHART



Log of Boring B1

Project: Mixed Use Development

Project No: 112-17043

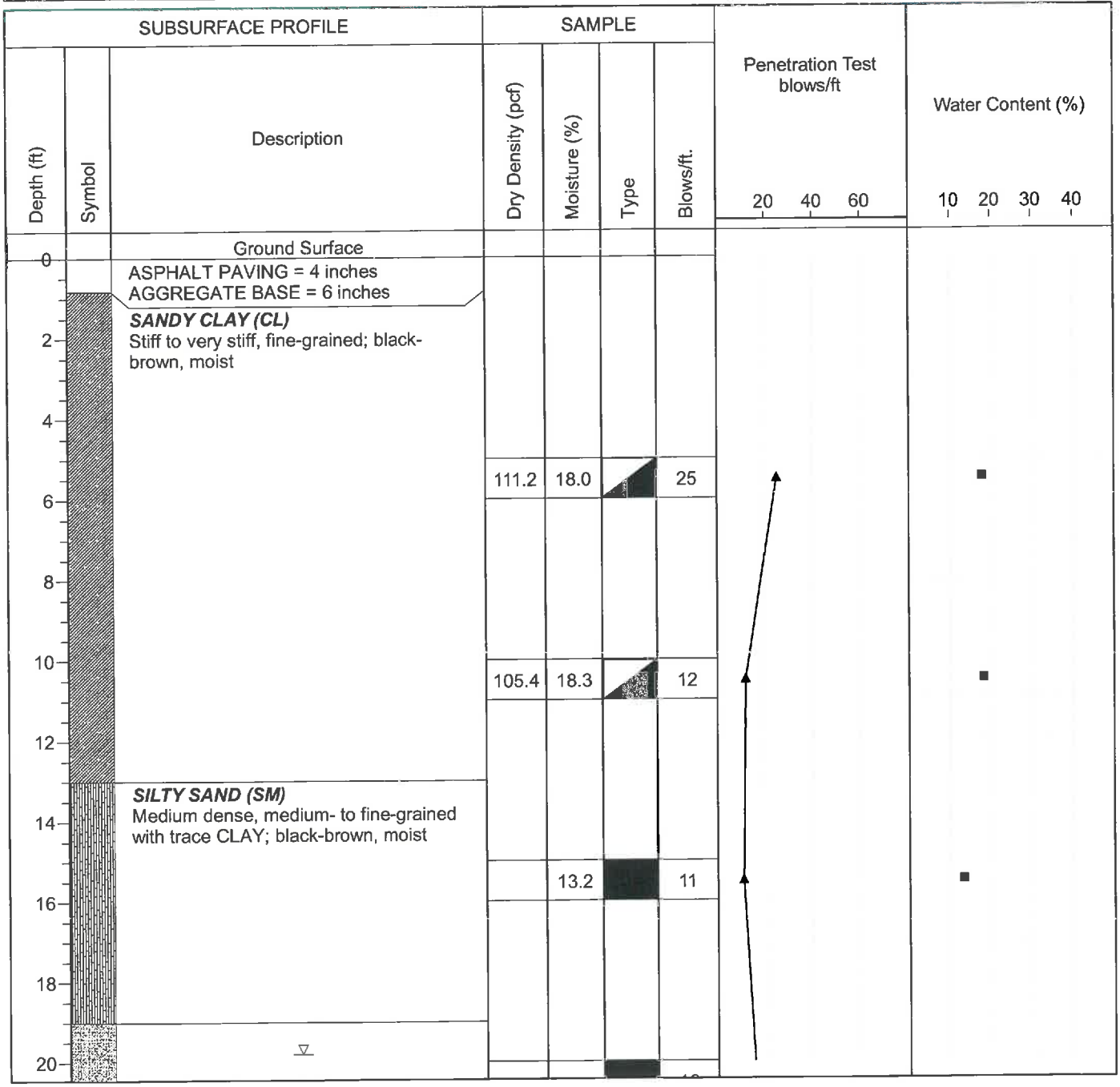
Client: Regency Centers, Inc.

Figure No.: A-1

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet



Drill Method: Hollow Stem

Drill Rig: CME 75

Driller: Jorge Pelayo

Krazan and Associates

Drill Date: 6-8-17

Hole Size: 6½ Inches

Elevation: 80 Feet

Log of Boring B1

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-1

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet

Initial: 20 Feet

At Completion: 20 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
22		***SAND (SP)*** Medium dense, coarse- to fine-grained, poorly graded; gray, wet		16.6		16		
24		***SANDY SILT (ML)*** Very stiff, medium- to fine-grained; brown, wet		19.7		25		
26								
28								
30		***SANDY CLAY (CL)*** Stiff to very stiff, fine-grained; dark gray, wet	112.2	17.6		21		
32								
34								
36			110.1	25.5		21		
38								
40								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 80 Feet

Log of Boring B1

Project: Mixed Use Development

Project No: 112-17043

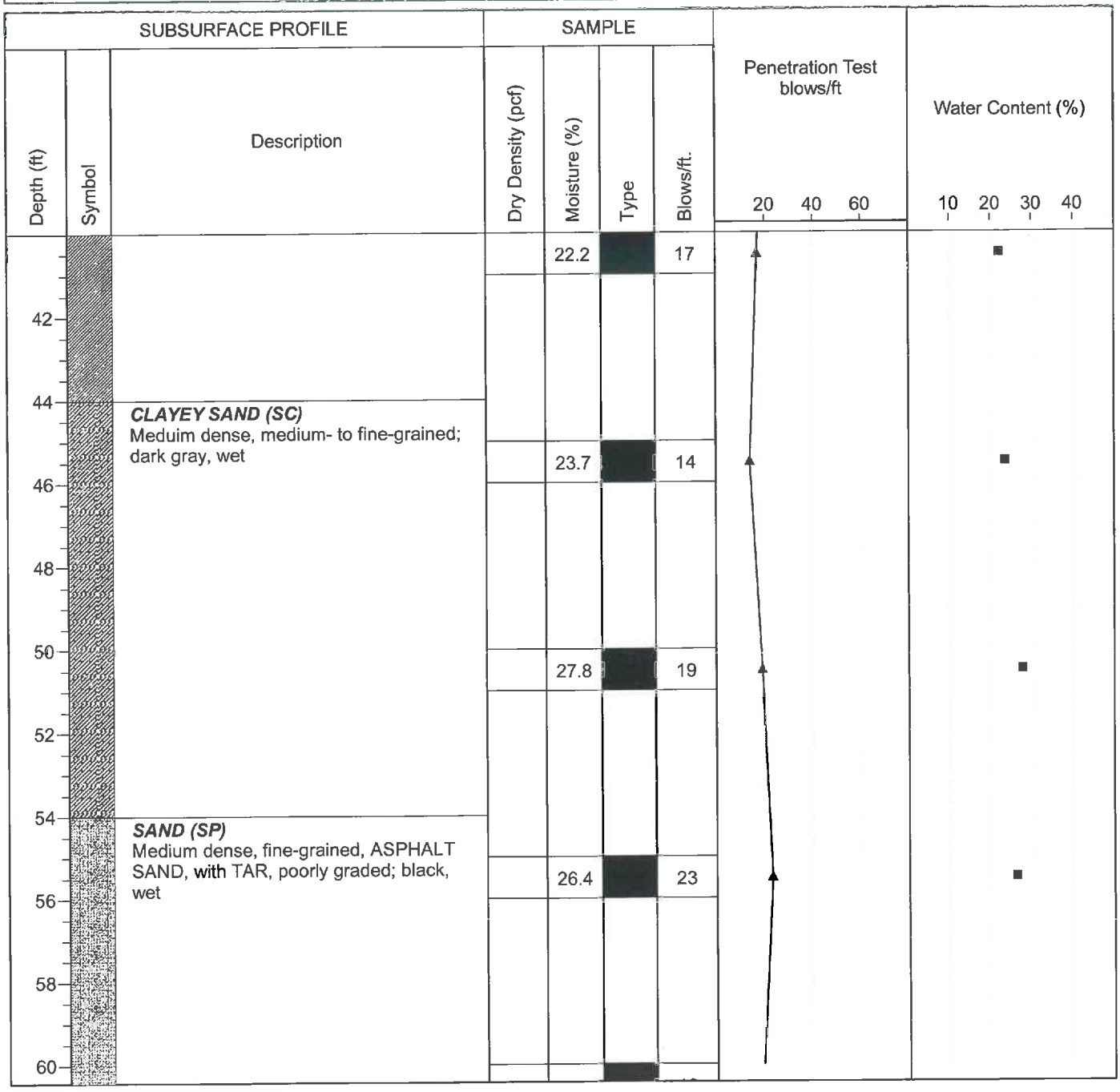
Client: Regency Centers, Inc.

Figure No.: A-1

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 80 Feet

Log of Boring B1

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-1

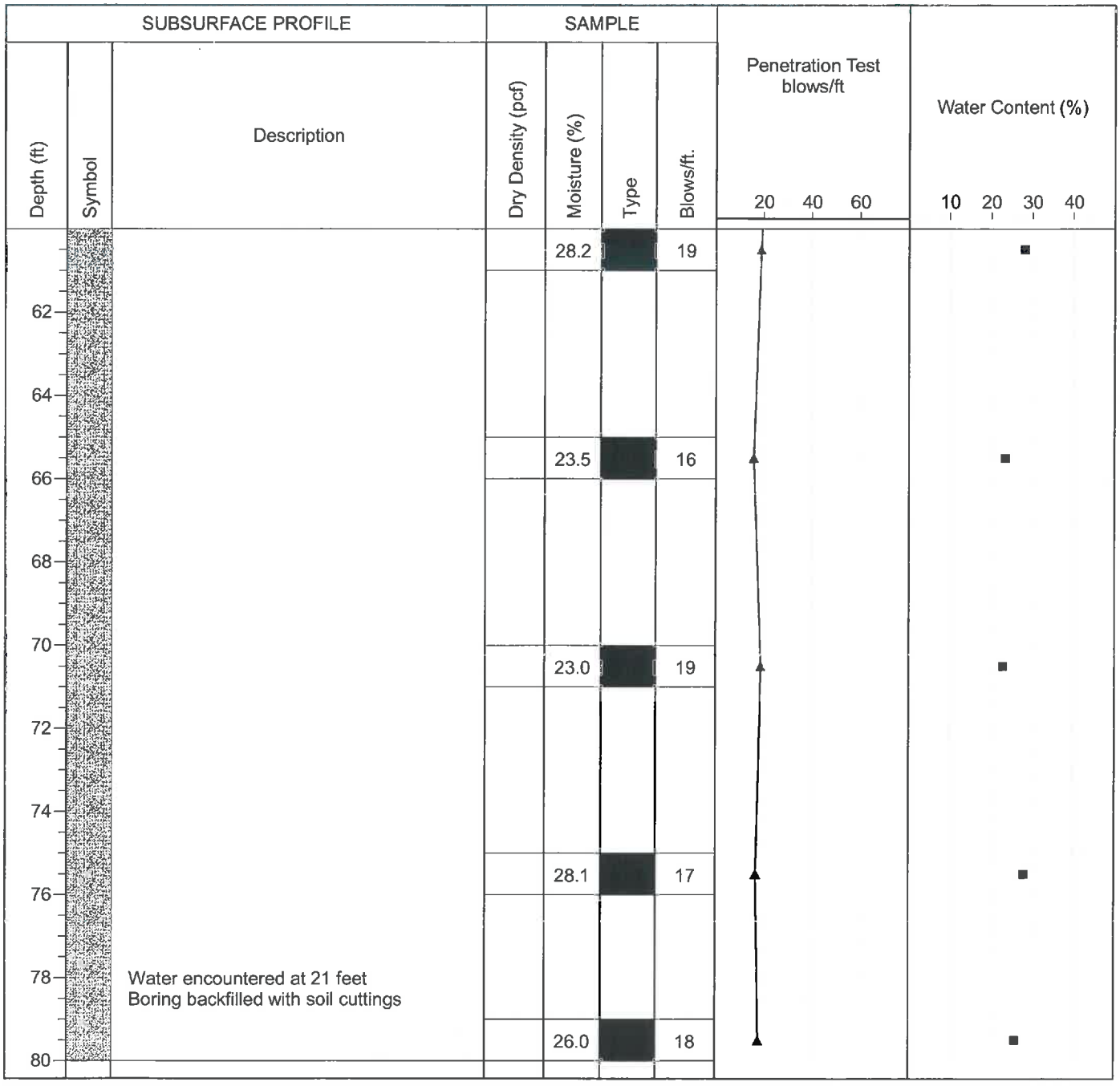
Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet

Initial: 20 Feet

At Completion: 20 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 80 Feet

Sheet: 4 of 4

Log of Boring B2

Project: Mixed Use Development

Project No: 112-17043

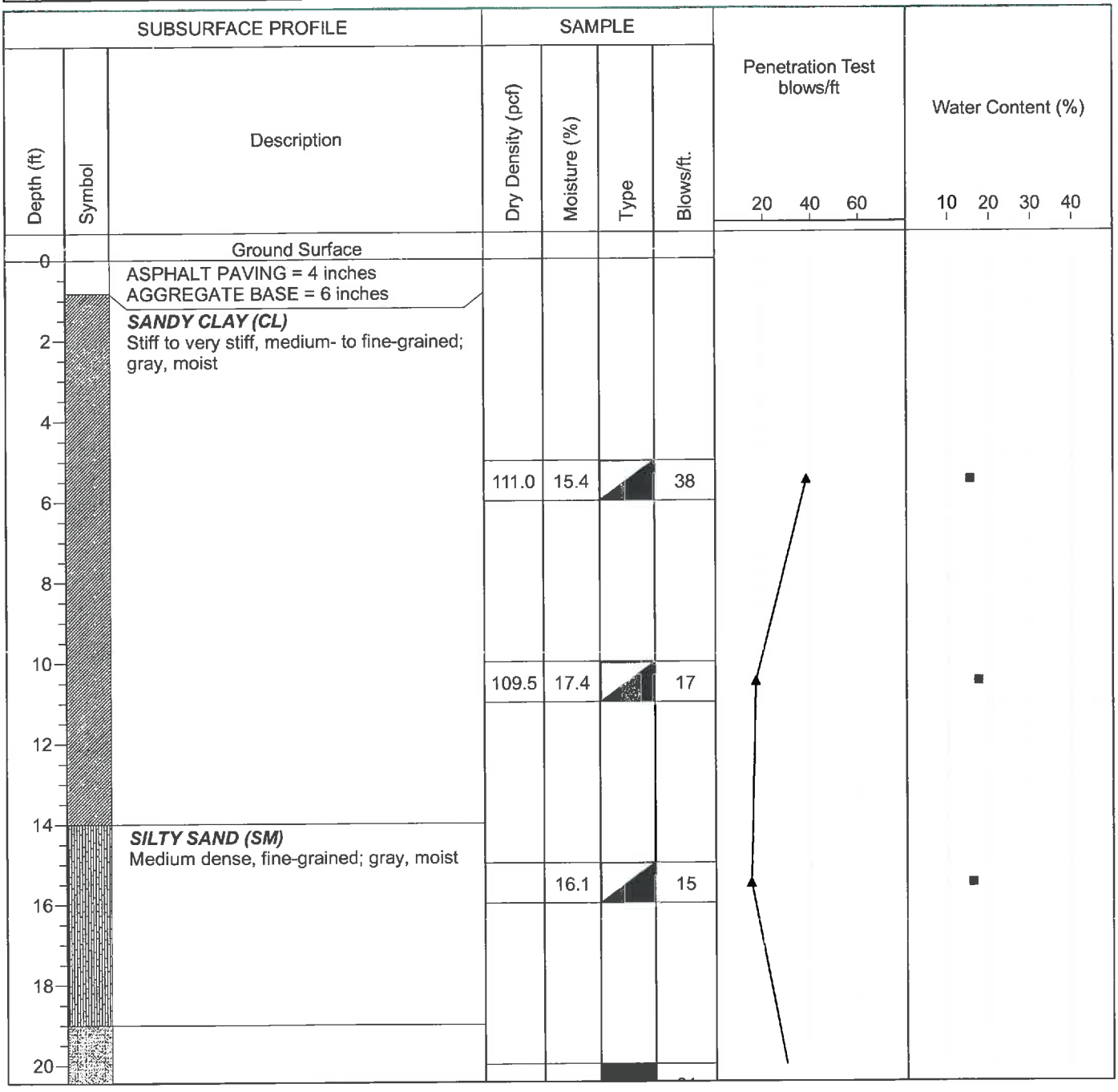
Client: Regency Centers, Inc.

Figure No.: A-2

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 21 Feet **Initial:** 21 Feet **At Completion:** 21 Feet



Drill Method: Hollow Stem

Drill Rig: CME 75

Driller: Jorge Pelayo

Krazan and Associates

Drill Date: 6-8-17

Hole Size: 6½ Inches

Elevation: 40 Feet

Log of Boring B2

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-2

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 21 Feet **Initial:** 21 Feet **At Completion:** 21 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
22		***SAND (SP)*** Dense, coarse- to fine-grained, poorly graded; gray, wet		21.6		31		
24		***SANDY SILT (ML)*** Medium stiff to stiff, medium- to fine-grained; gray with brown, wet		19.7		12		
26								
28								
30		***SANDY CLAY (CL)*** Stiff to very stiff, fine-grained; dark gray, wet		16.3		11		
32								
34								
36				19.6		13		
38		Water encountered at 21 feet Boring backfilled with soil cuttings						
				25.1		15		
40								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 40 Feet

Sheet: 2 of 2

Log of Boring B3

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-3

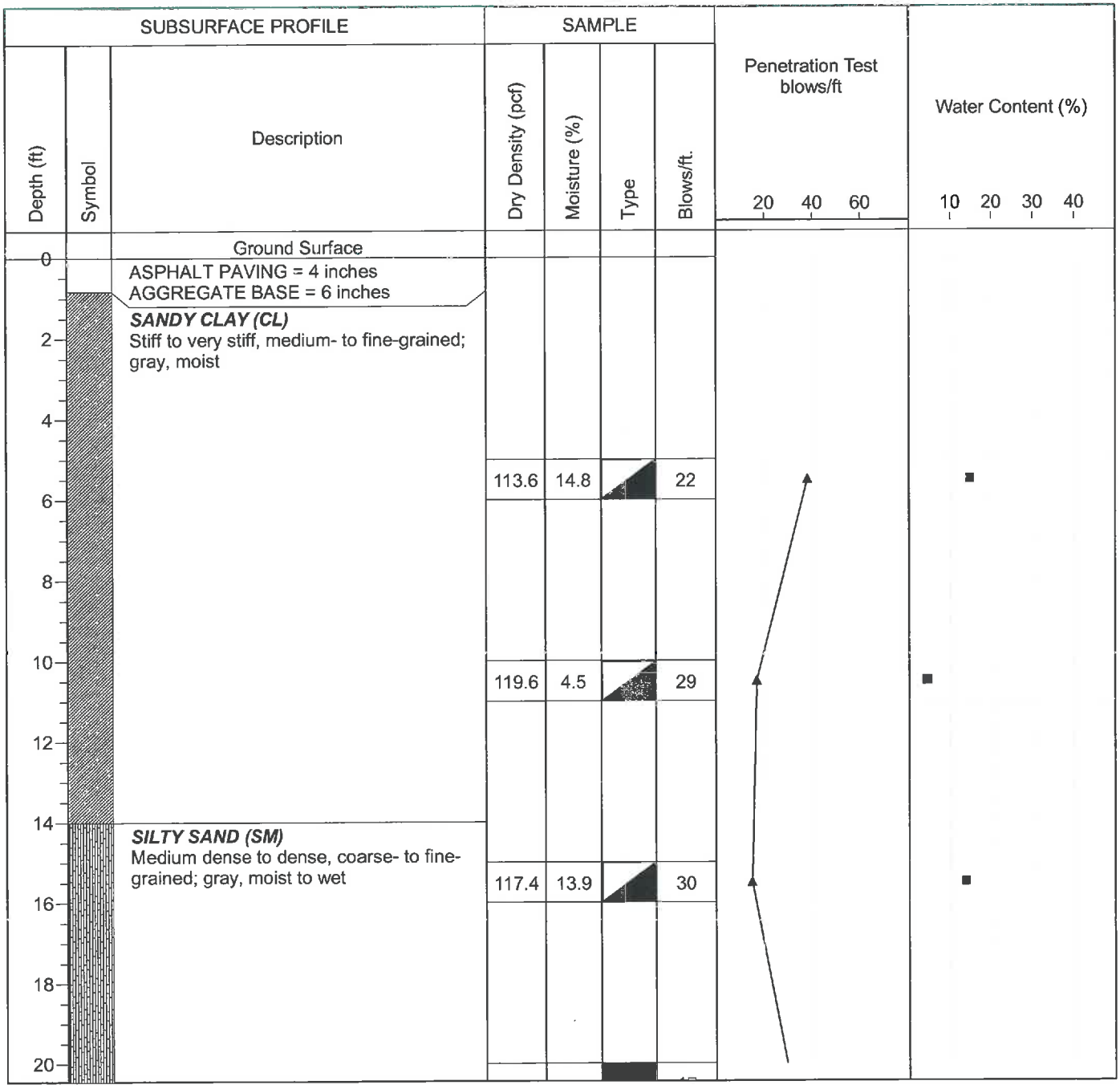
Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 22 Feet

Initial: 22 Feet

At Completion: 22 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 40 Feet

Log of Boring B3

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-3

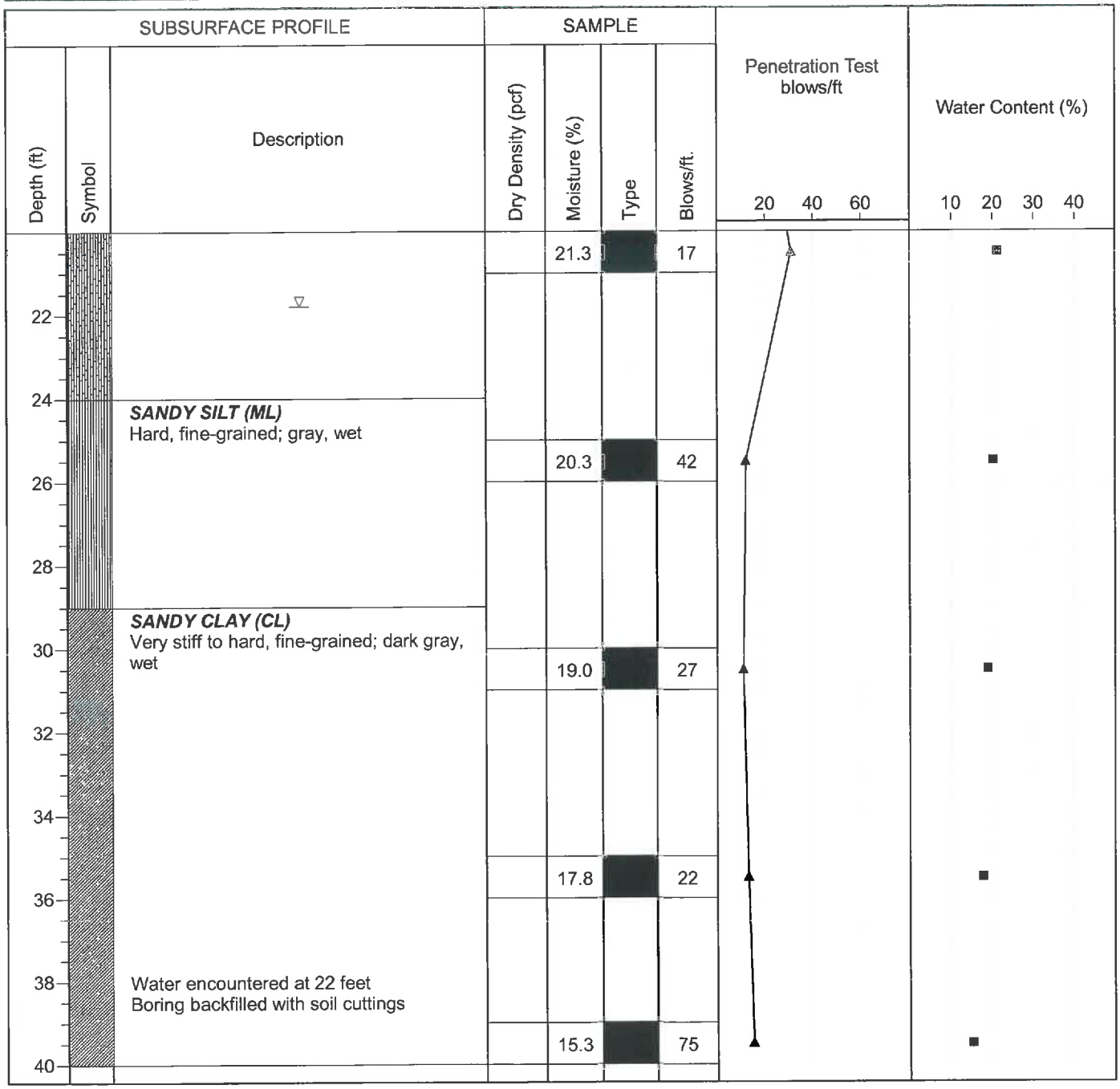
Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 22 Feet

Initial: 22 Feet

At Completion: 22 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 40 Feet

Log of Boring B4

Project: Mixed Use Development

Project No: 112-17043

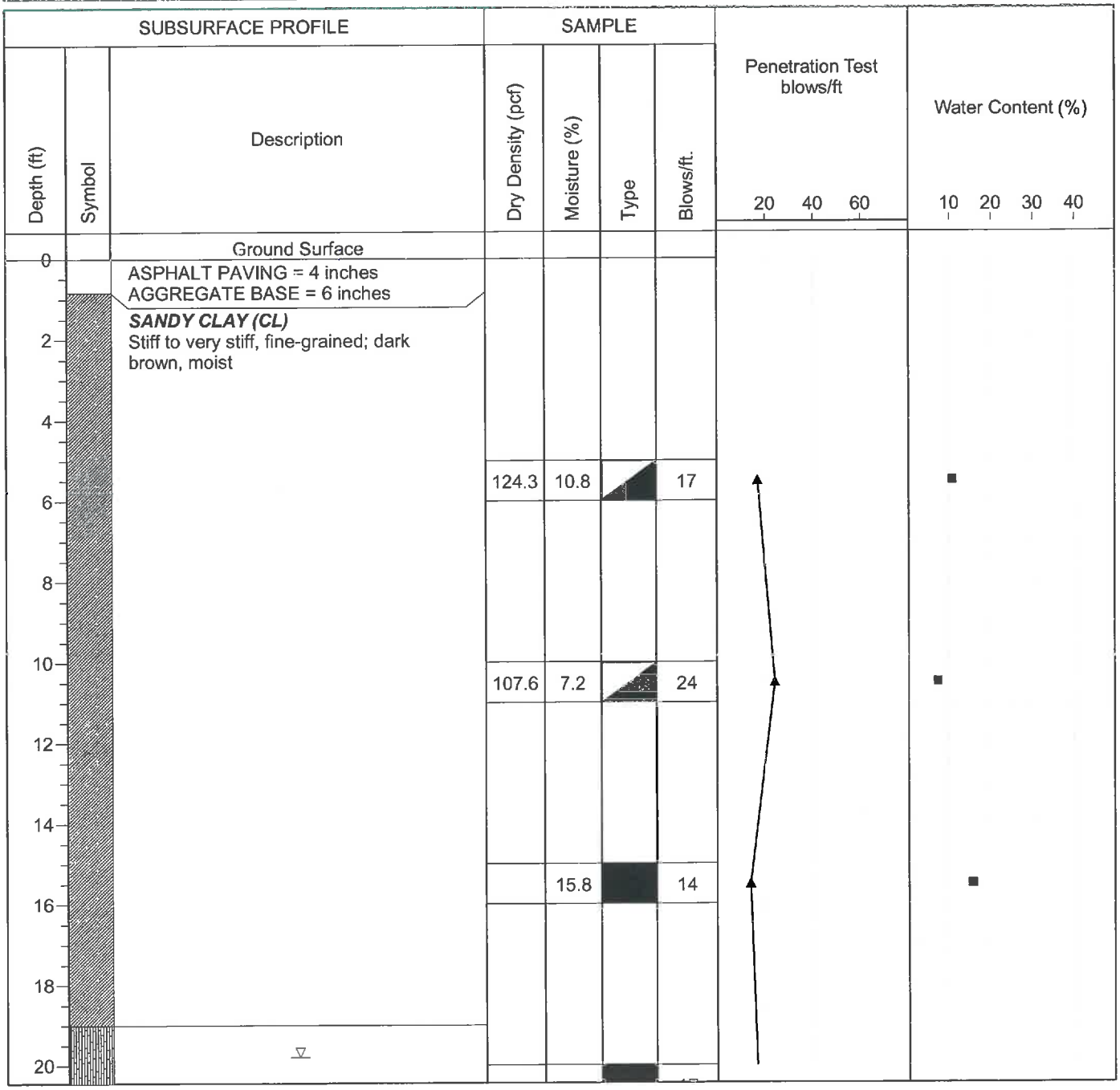
Client: Regency Centers, Inc.

Figure No.: A-4

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet



Drill Method: Hollow Stem

Drill Rig: CME 75

Driller: Jorge Pelayo

Krazan and Associates

Drill Date: 6-8-17

Hole Size: 6½ Inches

Elevation: 80 Feet

Log of Boring B4

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-4

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
22		***SILTY SAND (SM)*** Medium dense, medium- to fine-grained with CLAY; gray, wet		16.5		17		
24								
26				22.6		12		
28								
30		***SANDY CLAY (CL)*** Stiff to hard, medium- to fine-grained; gray, wet	106.6	20.4		25		
32								
34								
36			102.4	28.5		40		
38								
40								

Drill Method: Hollow Stem

Drill Rig: CME 75

Driller: Jorge Pelayo

Krazan and Associates

Drill Date: 6-8-17

Hole Size: 6½ Inches

Elevation: 80 Feet

Log of Boring B4

Project: Mixed Use Development

Project No: 112-17043

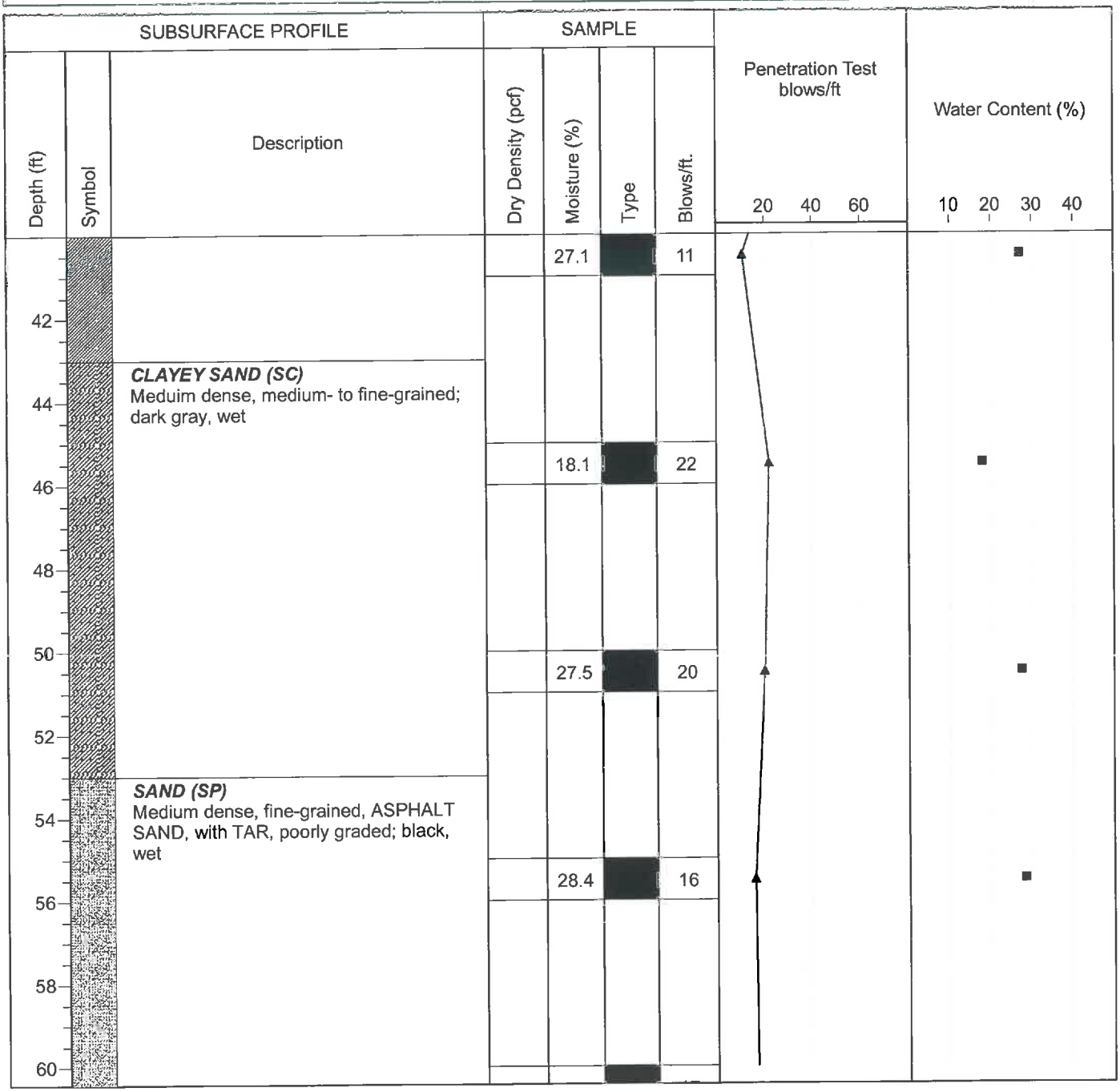
Client: Regency Centers, Inc.

Figure No.: A-4

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 80 Feet

Log of Boring B4

Project: Mixed Use Development

Project No: 112-17043

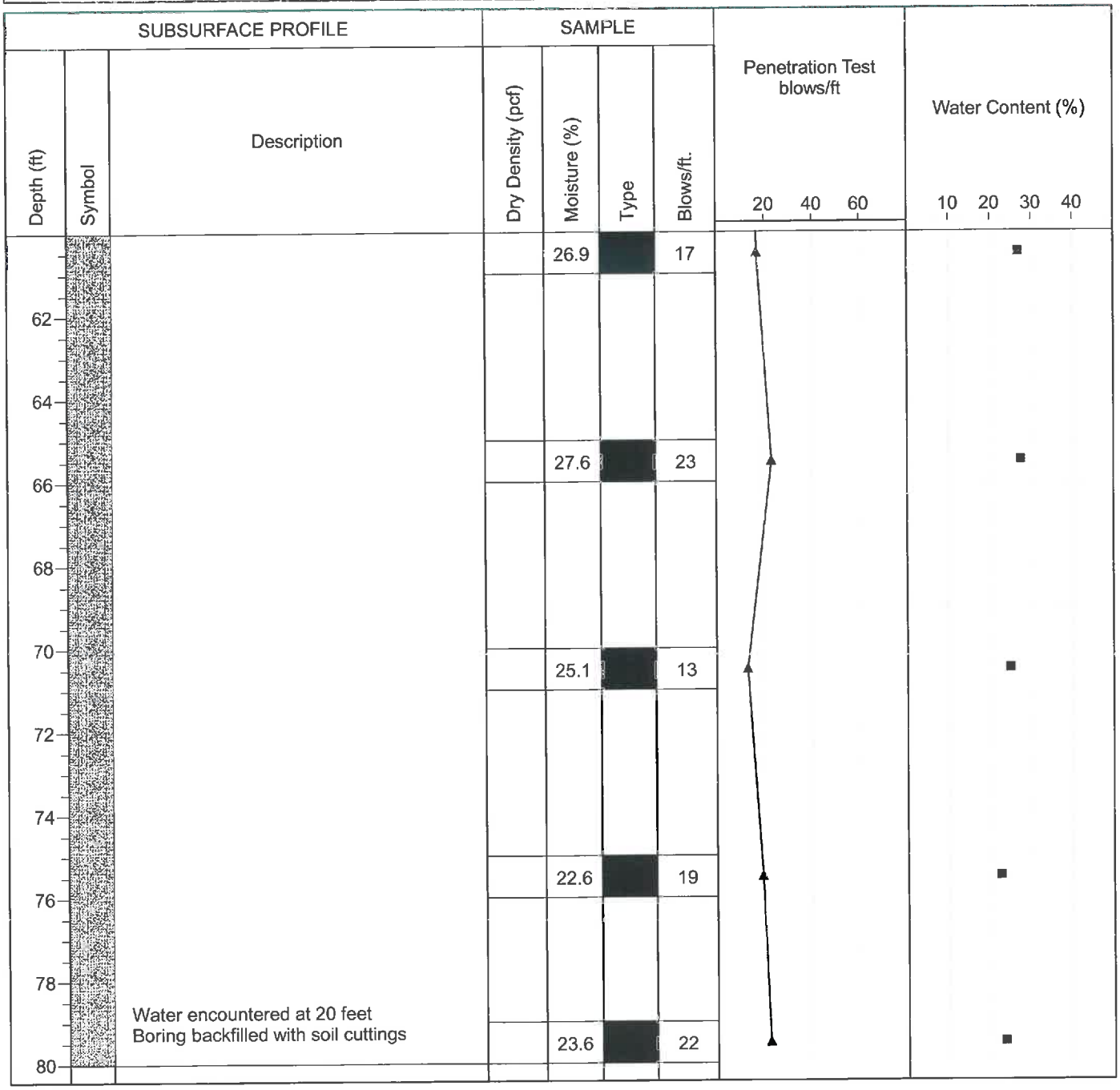
Client: Regency Centers, Inc.

Figure No.: A-4

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 20 Feet **Initial:** 20 Feet **At Completion:** 20 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 80 Feet

Sheet: 4 of 4

Log of Boring B5

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-5

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	Penetration Test blows/ft (20 40 60)	Water Content (%) (10 20 30 40)
0		Ground Surface						
0		ASPHALT PAVING = 4 inches AGGREGATE BASE = 5 inches						
2		***SANDY CLAY (CL)*** Stiff, medium- to fine-grained; dark brown, moist		11.5				■
				11.6				■
4		End of Borehole						
6								
8								
10								
12								
14								
16								
18		No water encountered Boring backfilled with soil cuttings						
20								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 4 Feet

Sheet: 1 of 1

Log of Boring B6

Project: Mixed Use Development

Project No: 112-17043

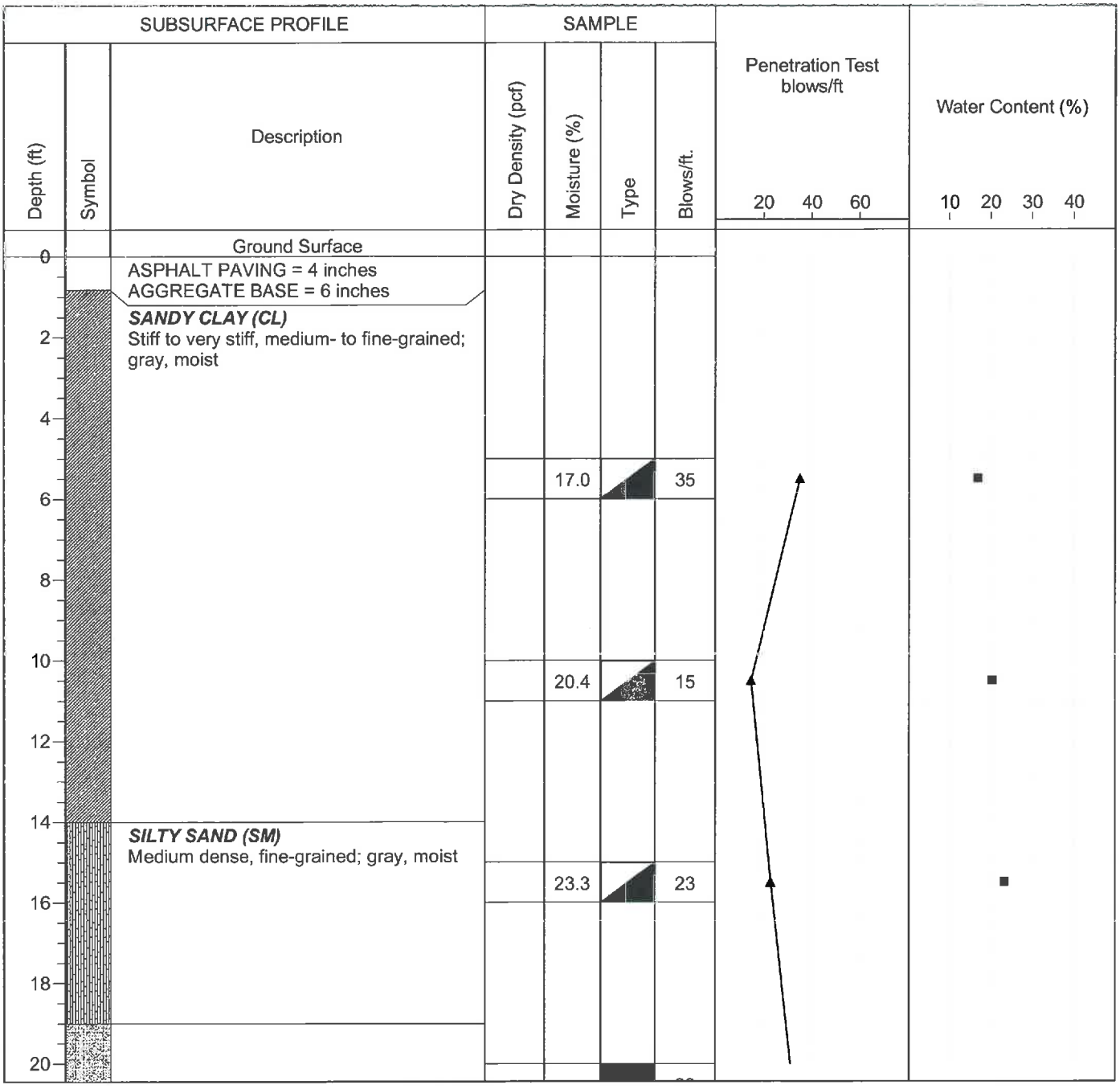
Client: Regency Centers, Inc.

Figure No.: A-6

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 21 Feet **Initial:** 21 Feet **At Completion:** 21 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 40 Feet

Log of Boring B6

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-6

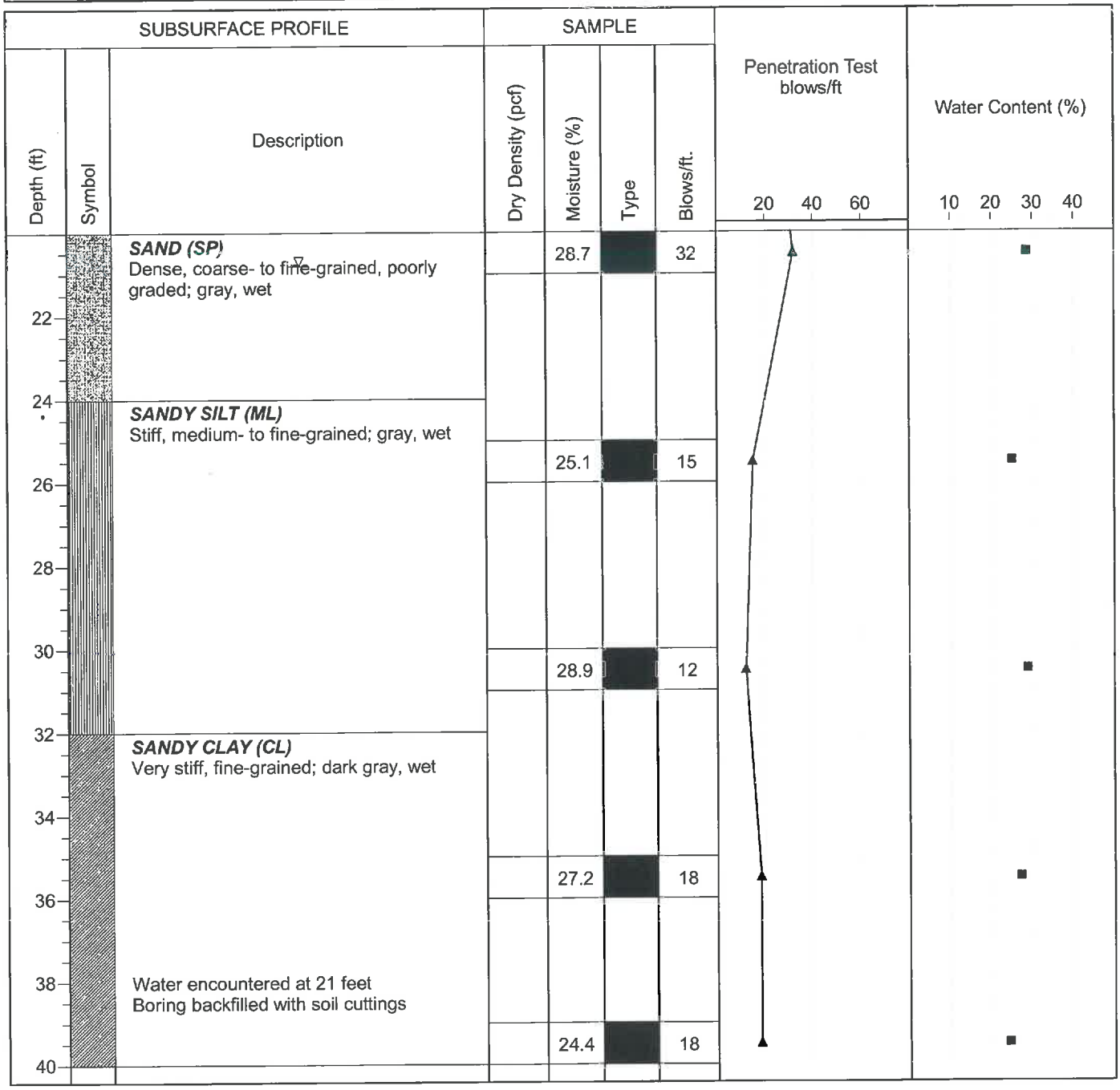
Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> 21 Feet

Initial: 21 Feet

At Completion: 21 Feet



Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 40 Feet

Log of Boring B7

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-6

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	Penetration Test blows/ft (20 40 60)	Water Content (%) (10 20 30 40)
0		Ground Surface						
		ASPHALT PAVING = 4 inches AGGREGATE BASE = 6 inches						
2		***SANDY CLAY (CL)*** Stiff to very stiff, medium- to fine-grained; dark brown, moist		7.8			■	
				12.1			■	
4		End of Borehole						
6								
8								
10								
12								
14								
16								
18		No water encountered Boring backfilled with soil cuttings						
20								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 4 Feet

Sheet: 1 of 1

Log of Boring B8

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-8

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered **Initial:** N/A **At Completion:** N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.
0		Ground Surface				
		ASPHALT PAVING = 3½ inches AGGREGATE BASE = 5 inches				
2		***SANDY CLAY (CL)*** Stiff to very stiff, medium- to fine-grained; dark brown, moist		7.8		
				15.3		
4		End of Borehole				
6						
8						
10						
12						
14						
16						
18		No water encountered Boring backfilled with soil cuttings				
20						

Penetration Test blows/ft: 20 40 60

Water Content (%): 10 20 30 40

Drill Method: Hollow Stem

Drill Rig: CME 75

Driller: Jorge Pelayo

Krazan and Associates

Drill Date: 6-8-17

Hole Size: 6½ Inches

Elevation: 4 Feet

Log of Boring B9

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-9

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	Penetration Test blows/ft (20 40 60)	Water Content (%) (10 20 30 40)
		Ground Surface						
0		ASPHALT PAVING = 4 inches AGGREGATE BASE = 5½ inches						
2		***SANDY CLAY (CL)*** Stiff to very stiff, medium- to fine-grained; dark brown, moist		9.4			■	■
				14.9				■
4		End of Borehole						
6								
8								
10								
12								
14								
16								
18		No water encountered Boring backfilled with soil cuttings						
20								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 4 Feet

Sheet: 1 of 1

Log of Boring B10

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-10

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	Penetration Test blows/ft (20 40 60)	Water Content (%) (10 20 30 40)
0		Ground Surface						
		ASPHALT PAVING = 3½ inches AGGREGATE BASE = 6 inches						
2		***SANDY CLAY (CL)*** Stiff to very stiff, medium- to fine-grained; dark brown, moist		8.3			■	
				14.5			■	
4		End of Borehole						
6								
8								
10								
12								
14								
16								
18		No water encountered Boring backfilled with soil cuttings						
20								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 4 Feet

Sheet: 1 of 1

Log of Boring B11

Project: Mixed Use Development

Project No: 112-17043

Client: Regency Centers, Inc.

Figure No.: A-11

Location: SEC 3rd & Fairfax, Los Angeles, CA

Logged By: Jorge Pelayo

Depth to Water> Not Encountered

Initial: N/A

At Completion: N/A

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft	Water Content (%)
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20 40 60	10 20 30 40
0		Ground Surface						
		ASPHALT PAVING = 4 inches AGGREGATE BASE = 6 inches						
2		***SANDY CLAY (CL)*** Stiff to very stiff, medium- to fine-grained; dark brown, moist		11.0				
				15.9				
4		End of Borehole						
6								
8								
10								
12								
14								
16								
18		No water encountered Boring backfilled with soil cuttings						
20								

Drill Method: Hollow Stem

Drill Date: 6-8-17

Drill Rig: CME 75

Krazan and Associates

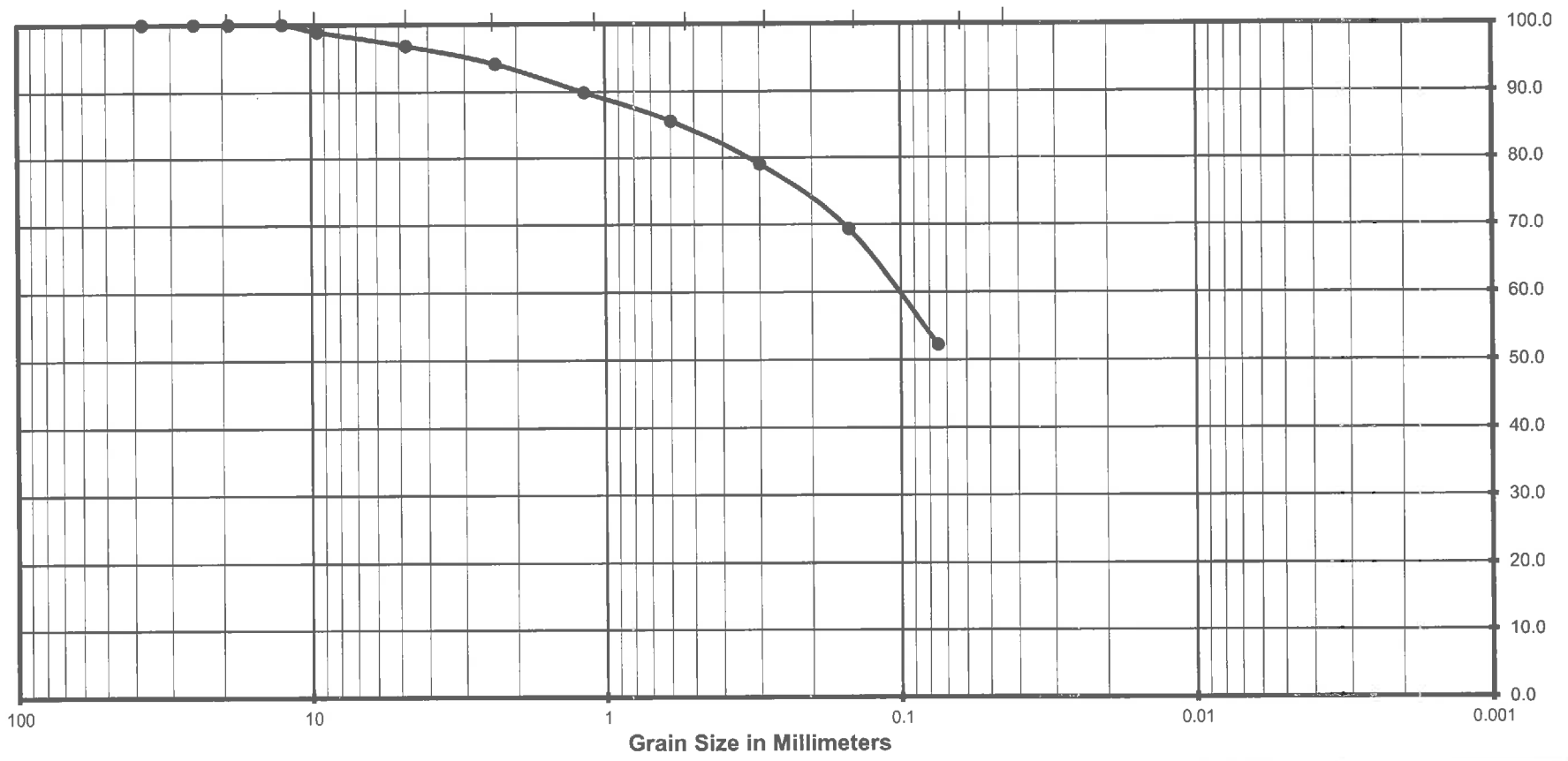
Hole Size: 6½ Inches

Driller: Jorge Pelayo

Elevation: 4 Feet

Sheet: 1 of 1

Grain Size Analysis



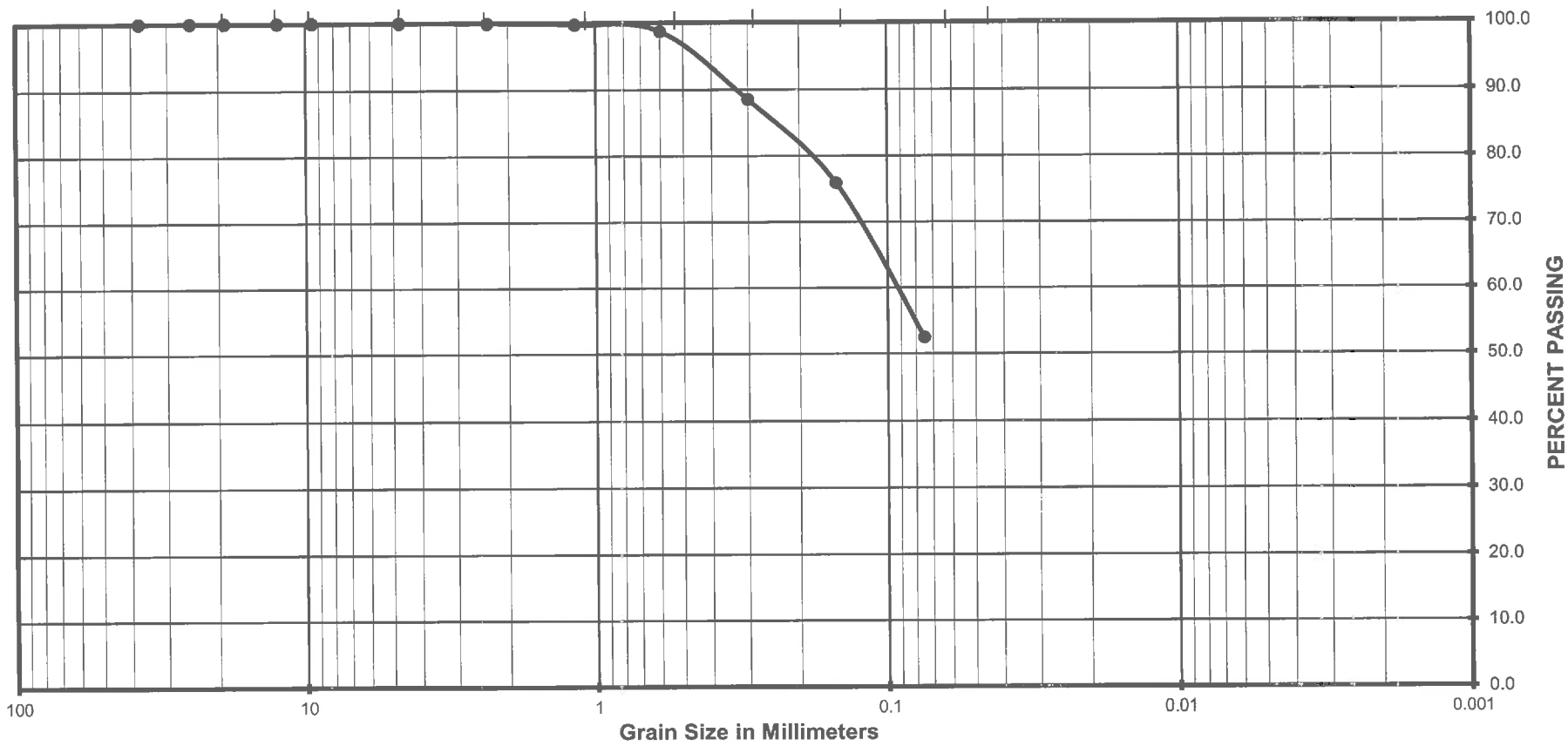
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	CL
Sample Number	B-1 @ 5'

Krazan Testing Laboratory

Grain Size Analysis



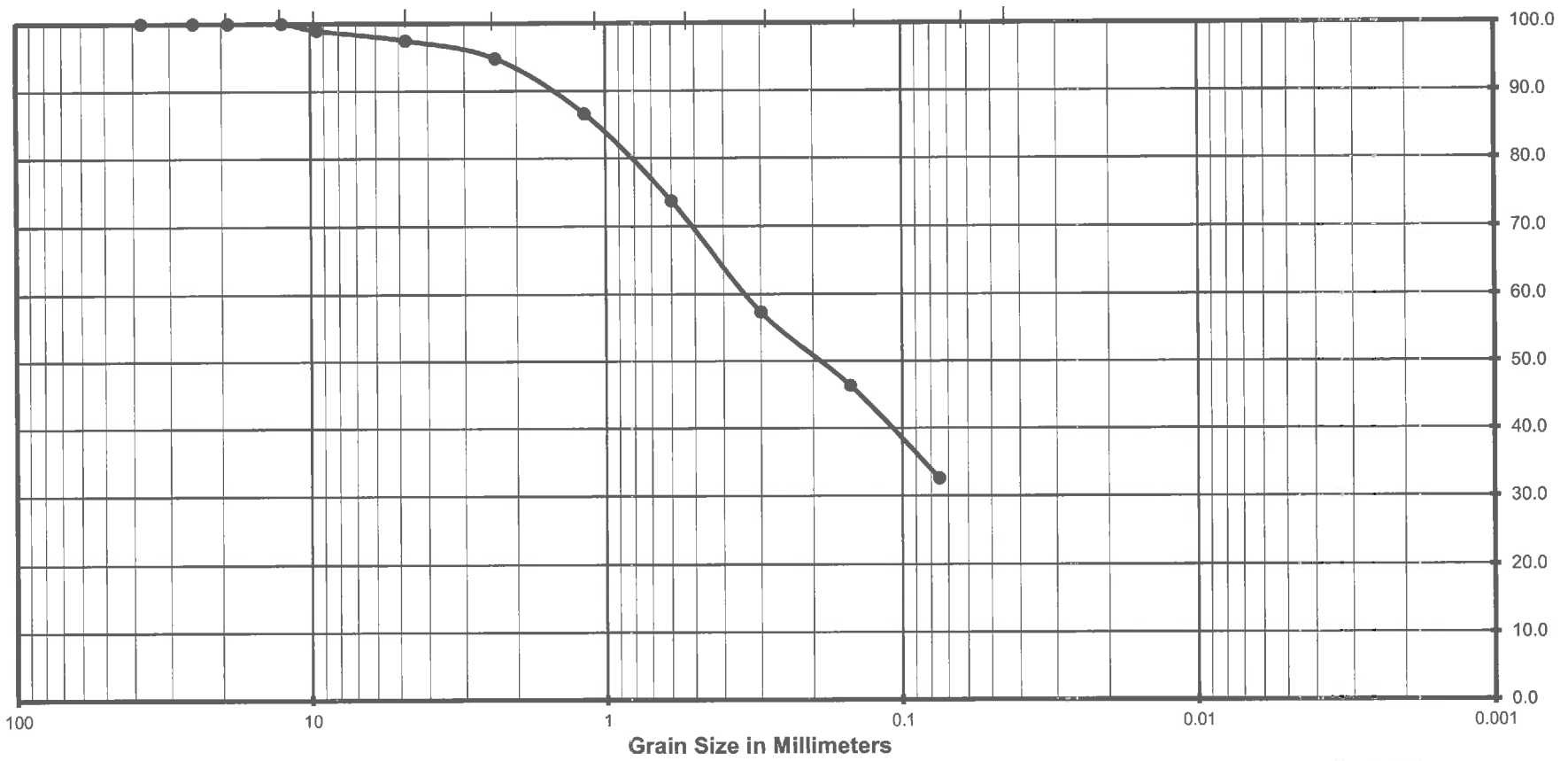
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	CL
Sample Number	B-1 @ 10'

Krazan Testing Laboratory

Grain Size Analysis



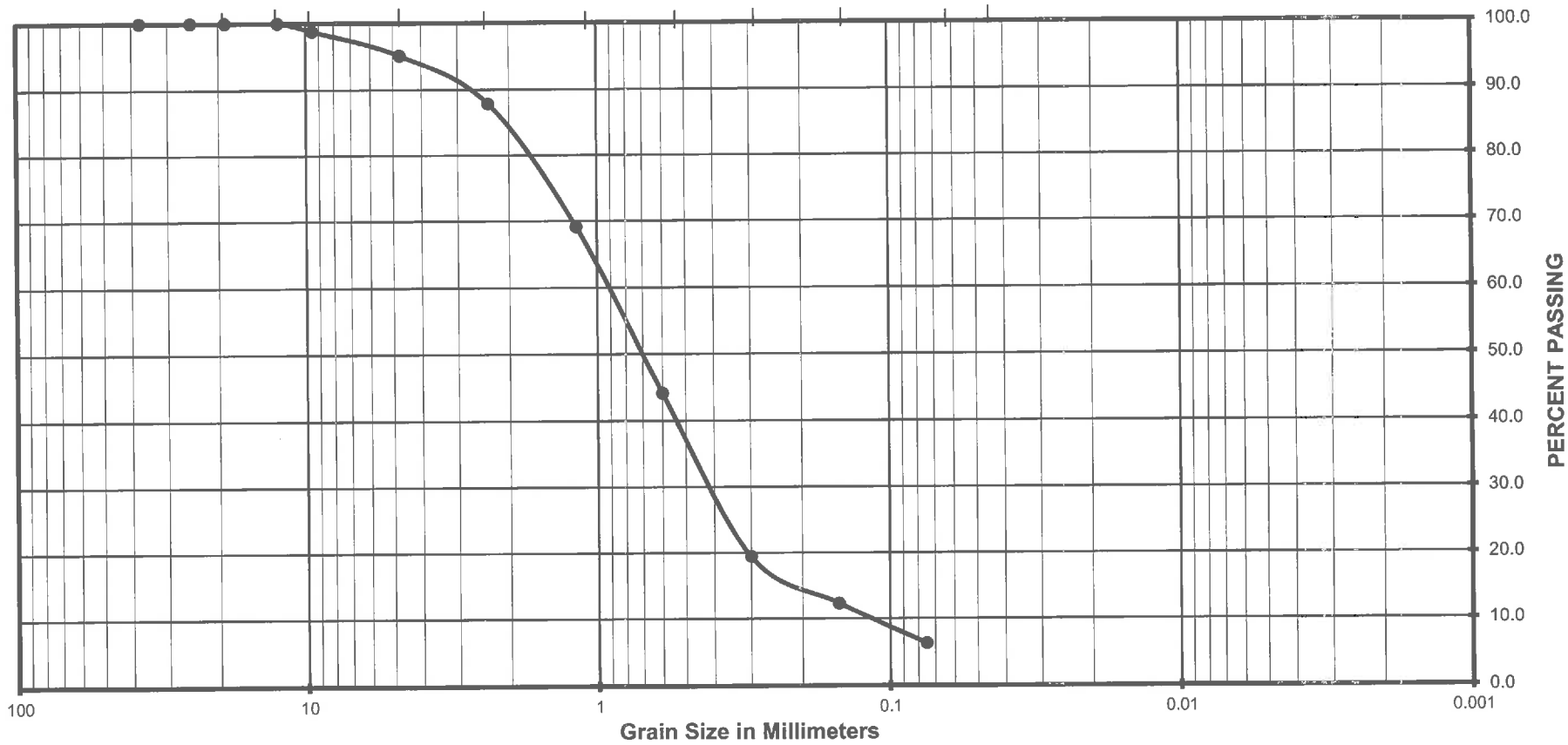
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SM
Sample Number	B-1 @ 15'

Krazan Testing Laboratory

Grain Size Analysis



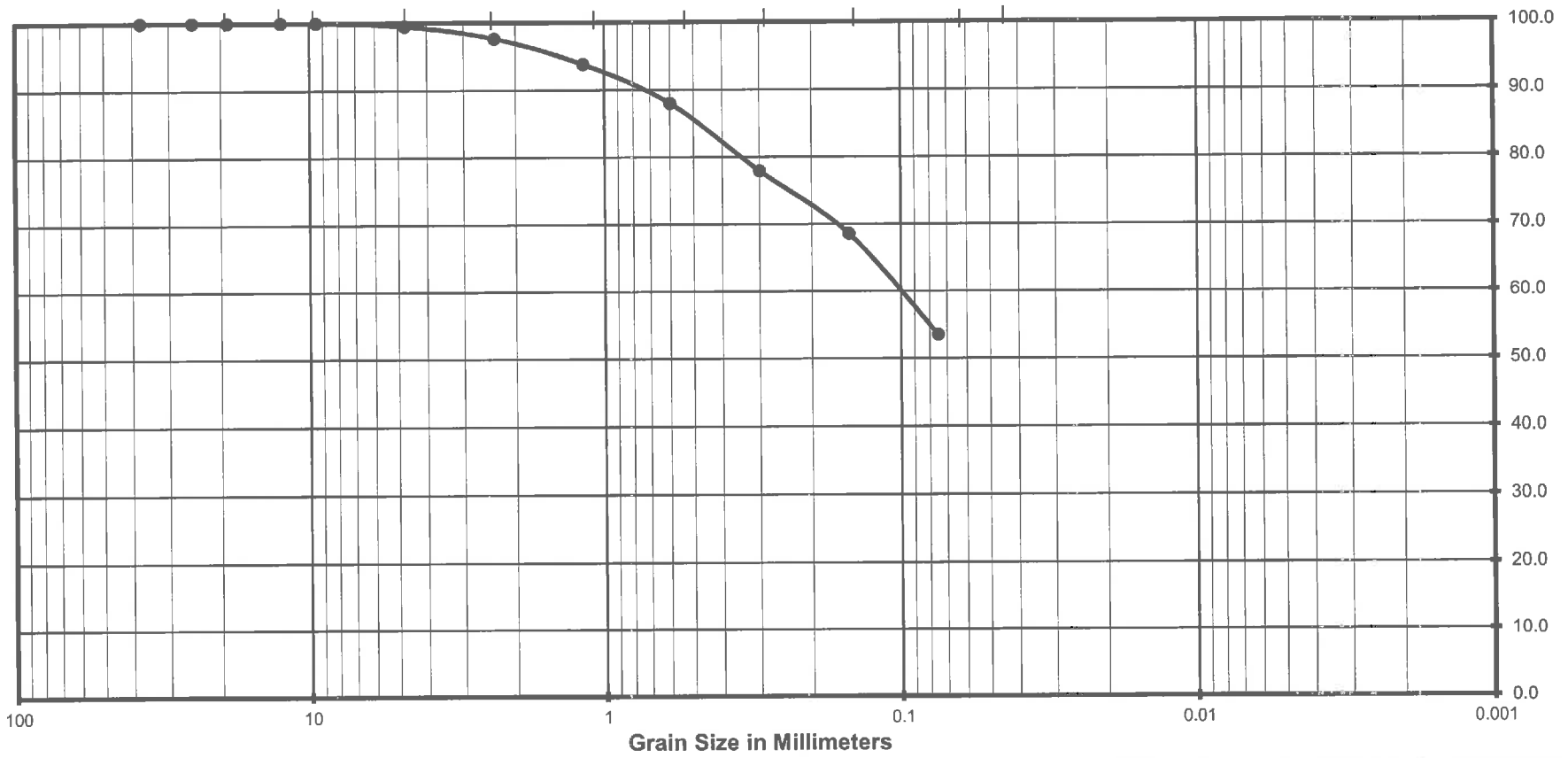
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 20'

Krazan Testing Laboratory

Grain Size Analysis



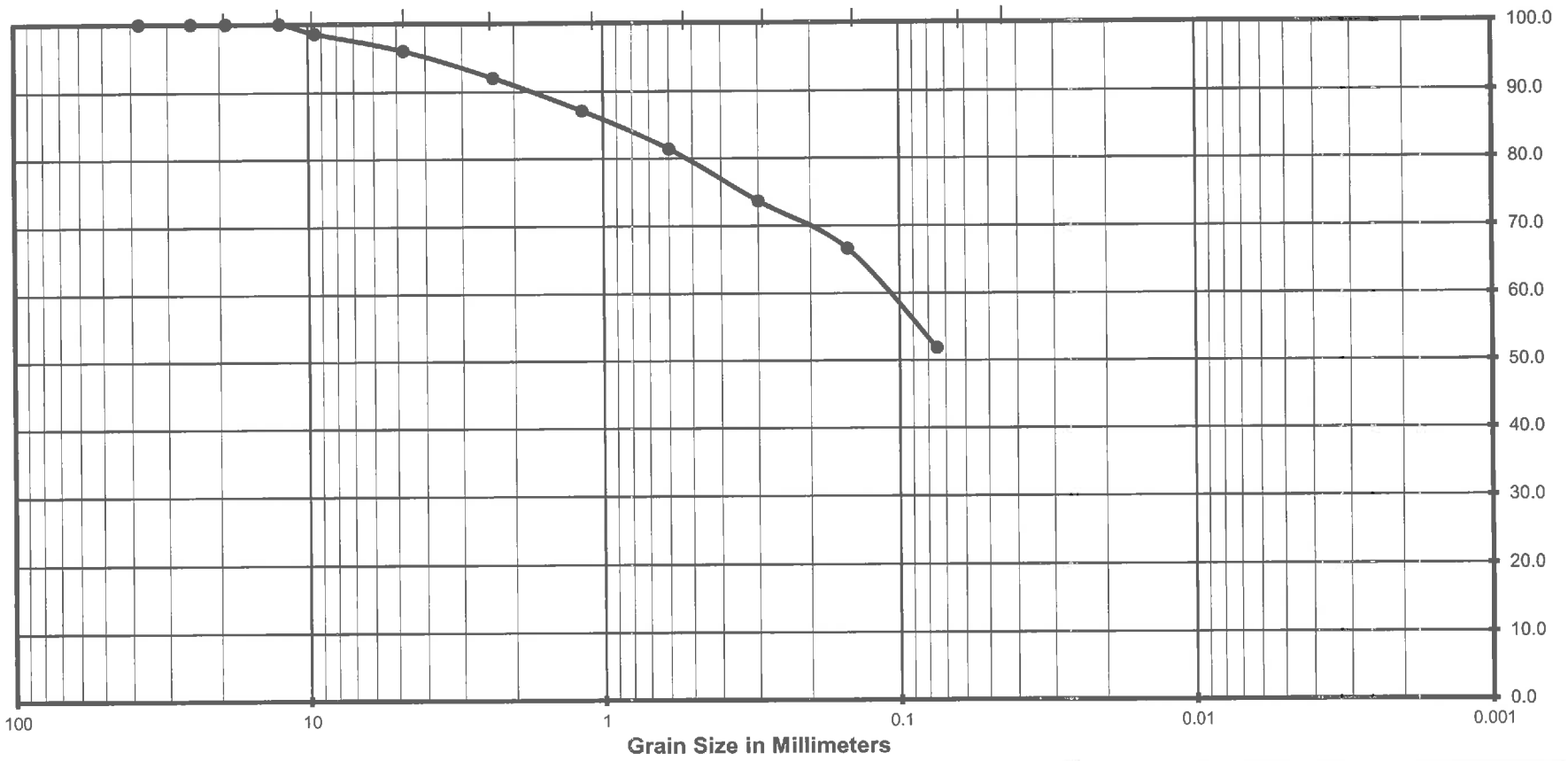
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	ML
Sample Number	B-1 @ 25'

Krazan Testing Laboratory

Grain Size Analysis



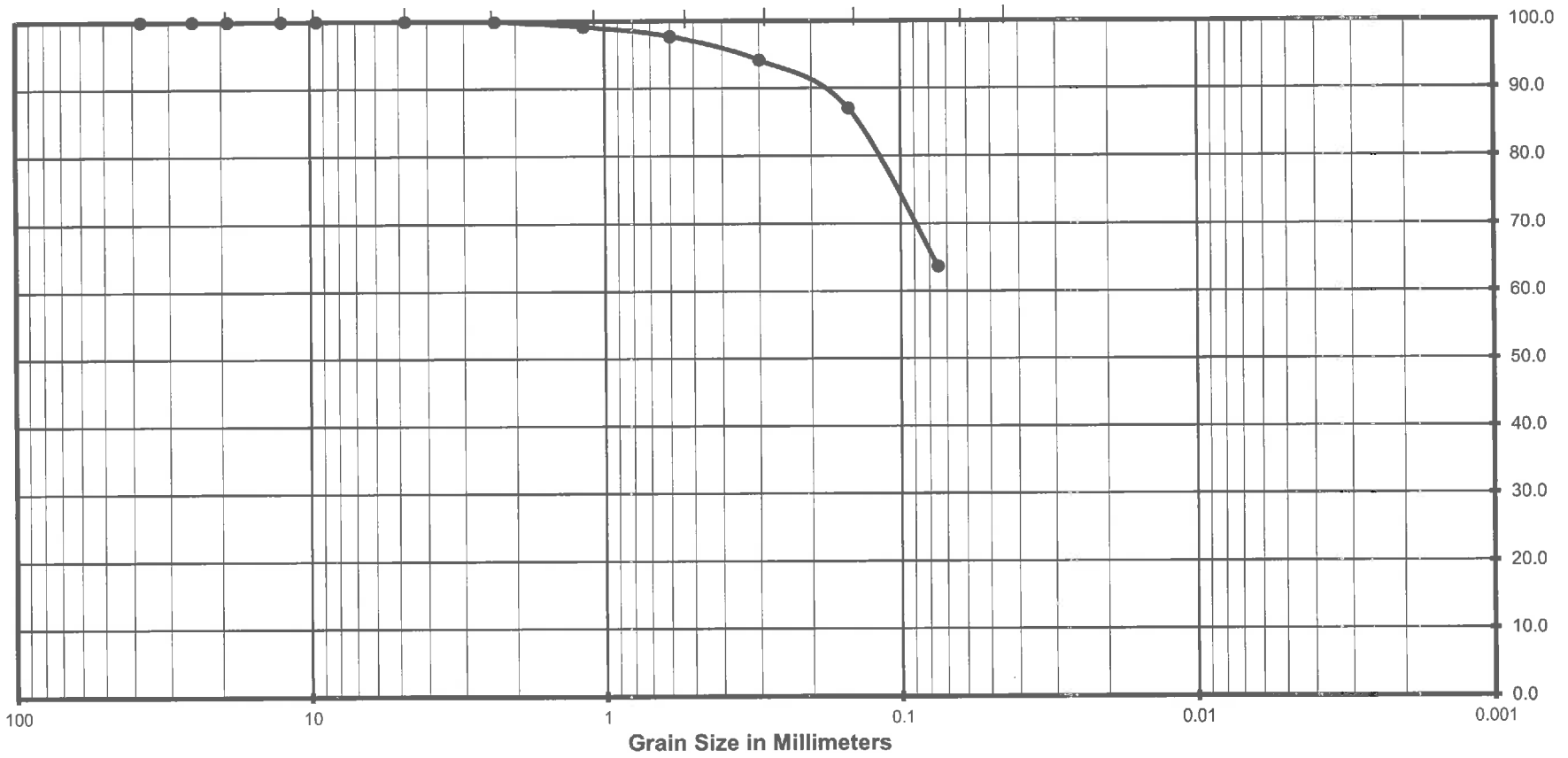
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	CL
Sample Number	B-1 @ 30'

Krazan Testing Laboratory

Grain Size Analysis



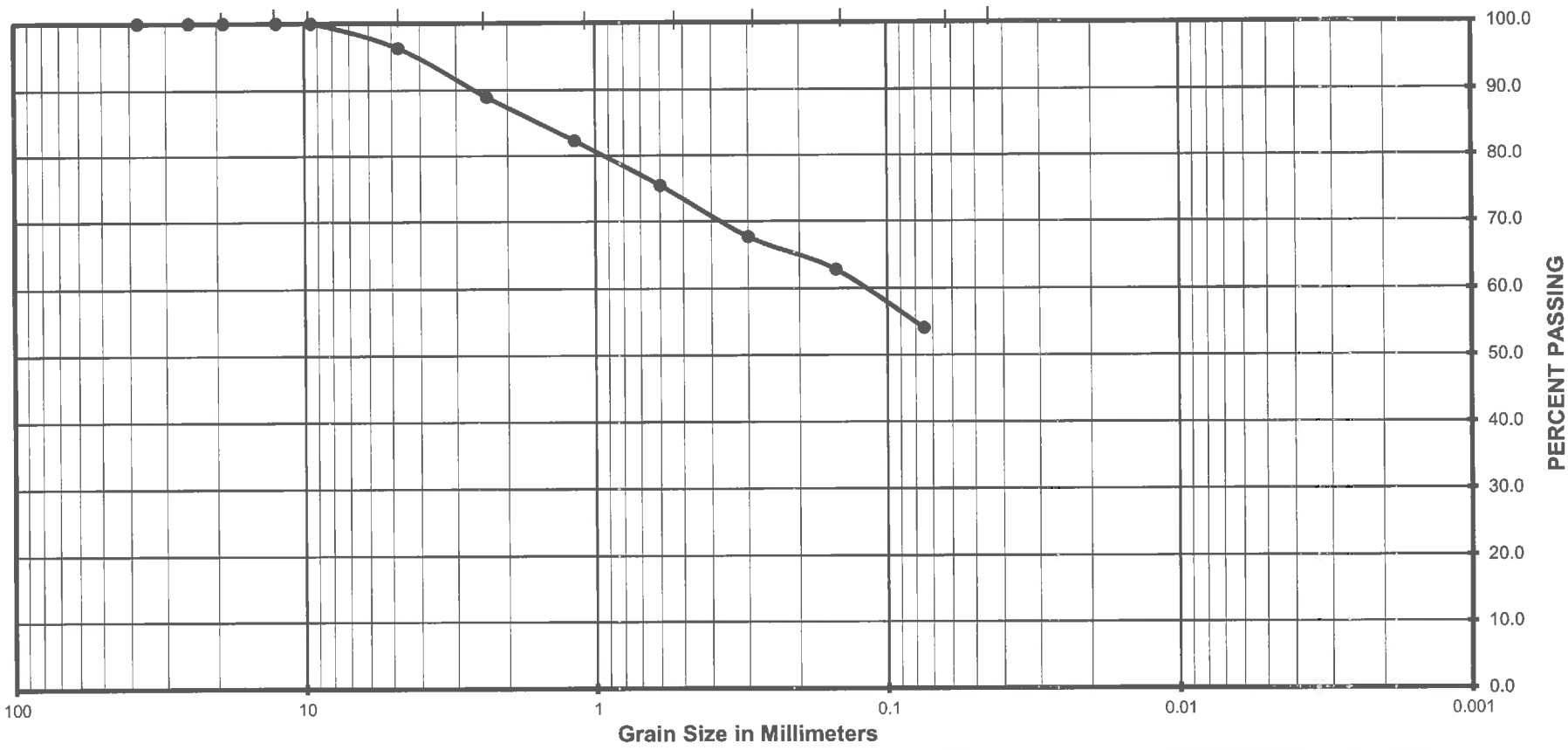
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	CL
Sample Number	B-1 @ 35'

Krazan Testing Laboratory

Grain Size Analysis



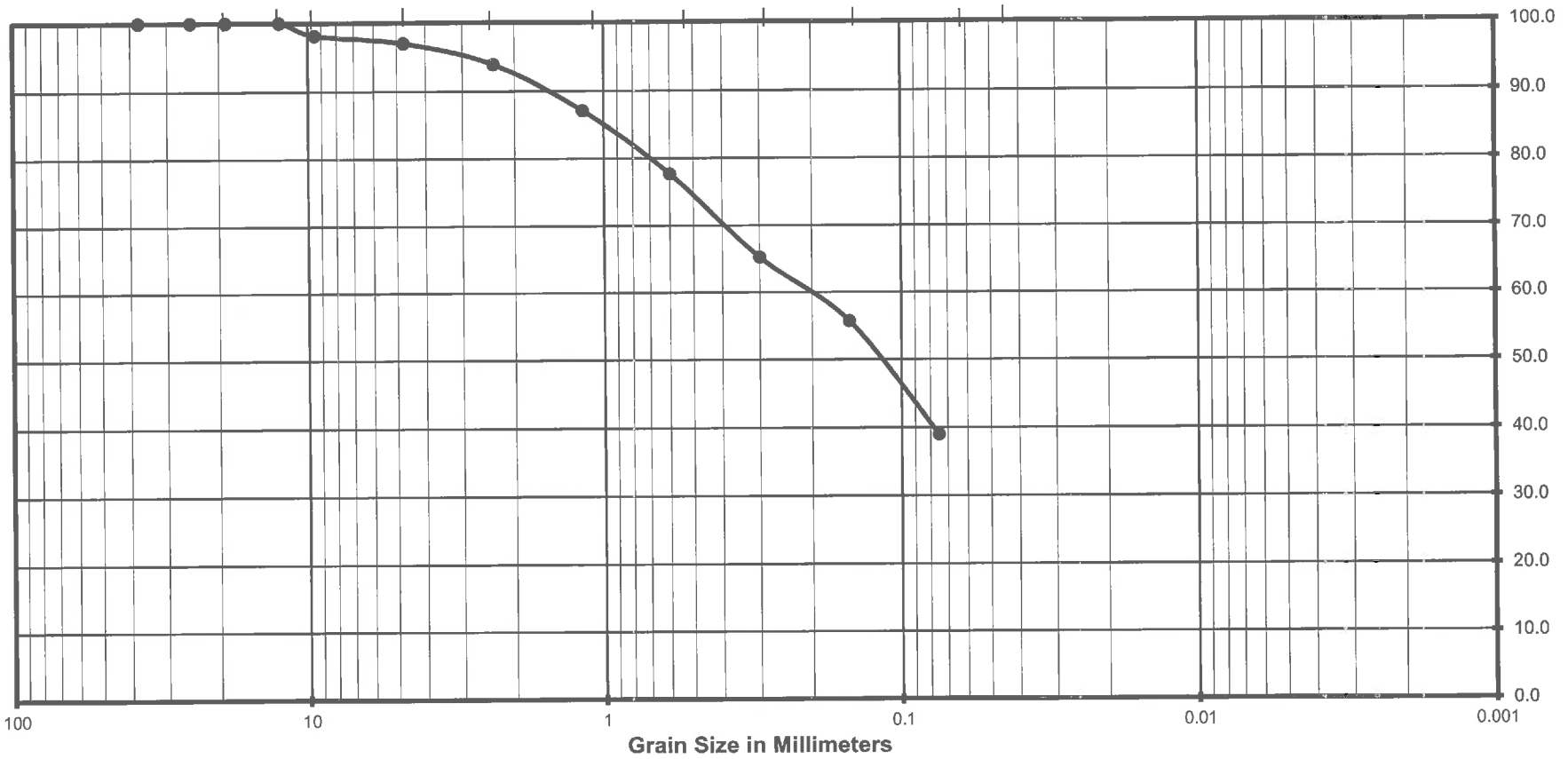
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	CL
Sample Number	B-1 @ 40'

Krazan Testing Laboratory

Grain Size Analysis



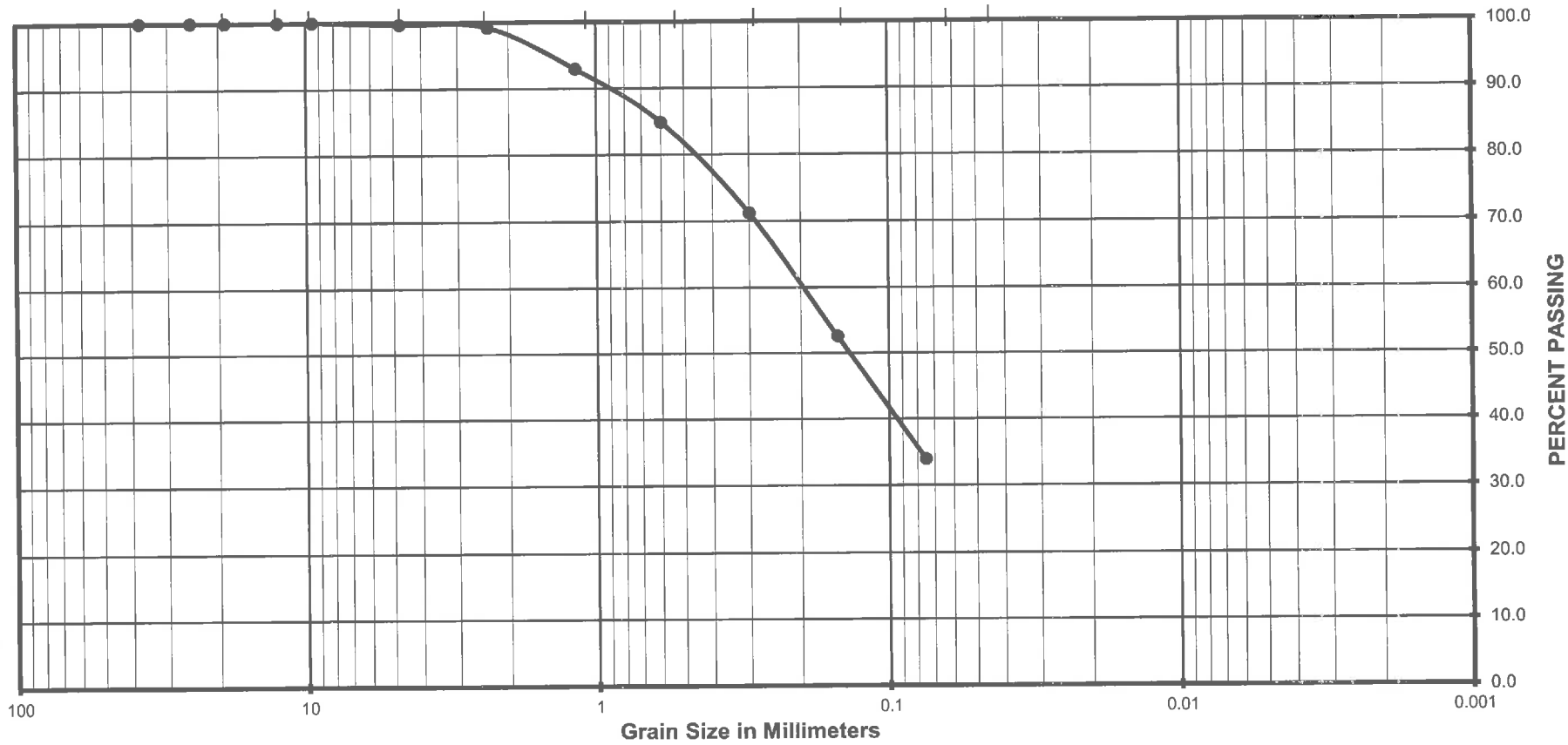
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SC
Sample Number	B-1 @ 45'

Krazan Testing Laboratory

Grain Size Analysis



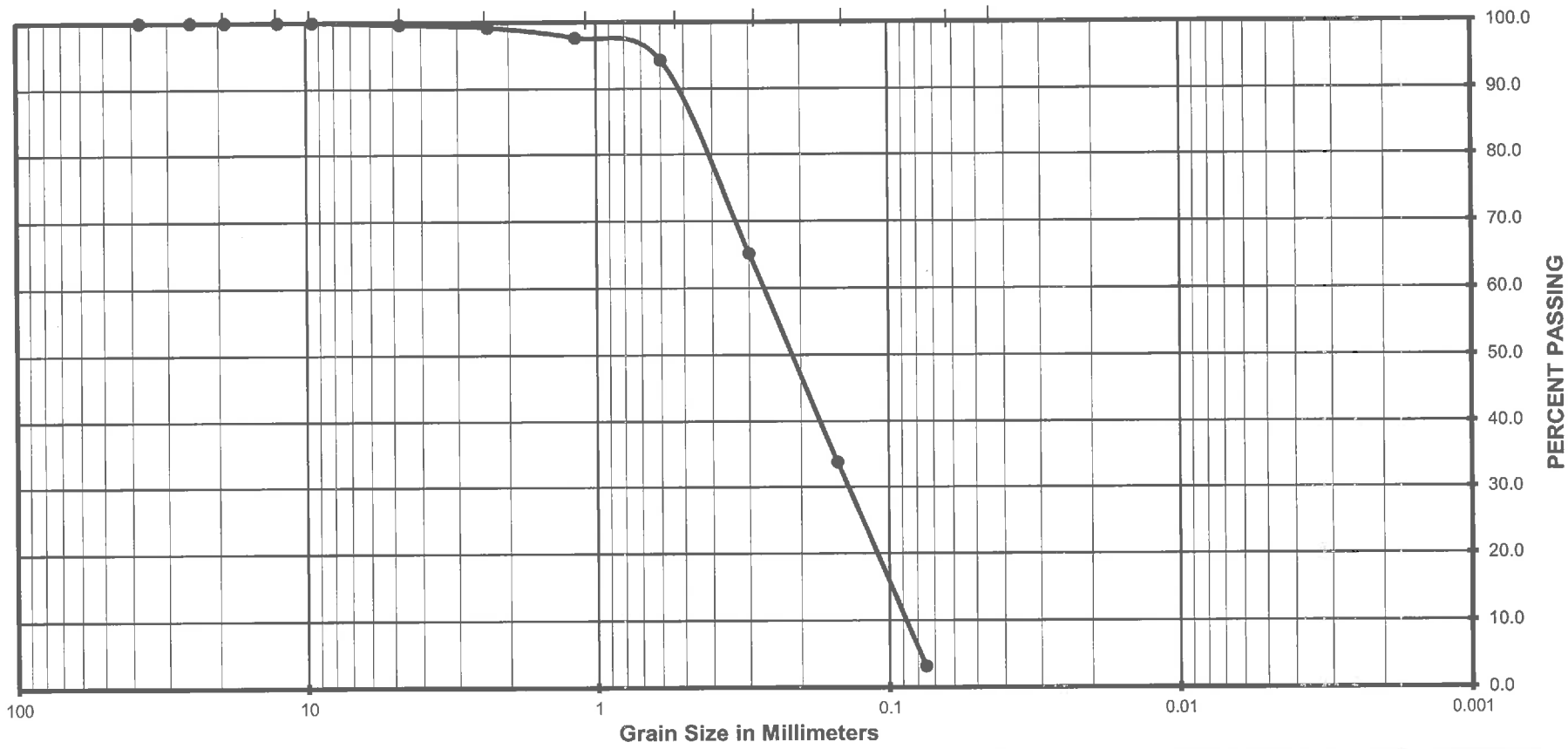
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SC
Sample Number	B-1 @ 50'

Krazan Testing Laboratory

Grain Size Analysis



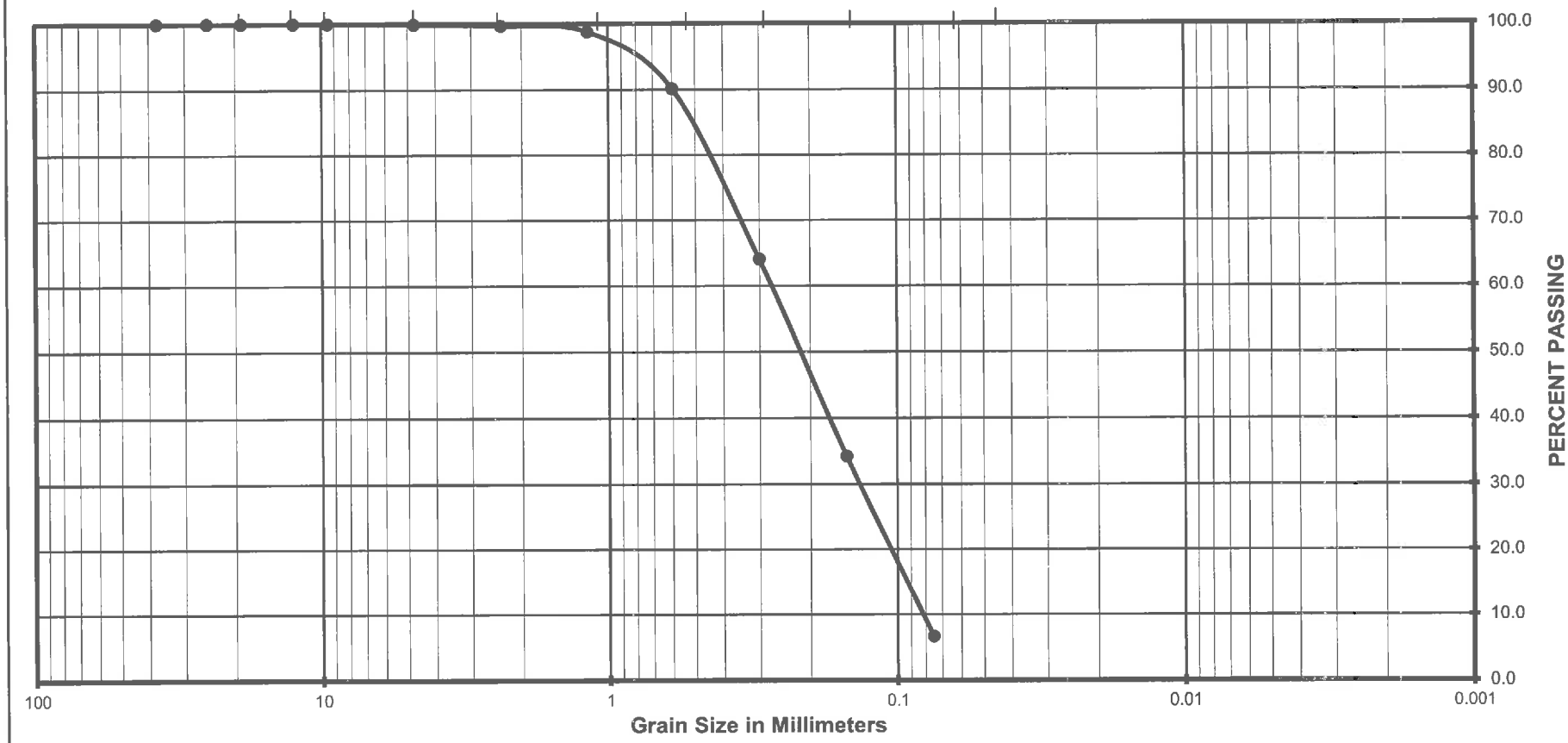
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 55'

Krazan Testing Laboratory

Grain Size Analysis



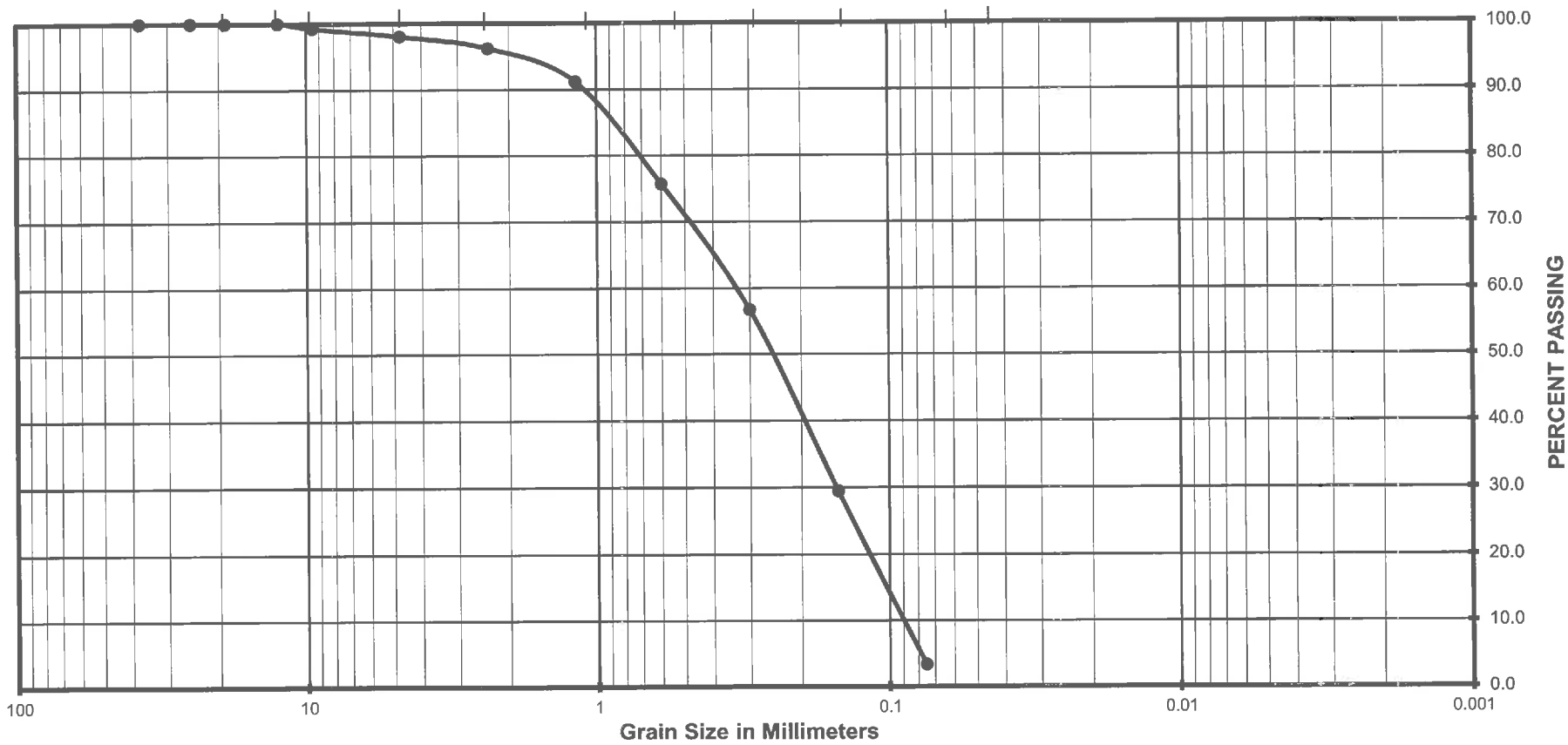
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 60'

Krazan Testing Laboratory

Grain Size Analysis



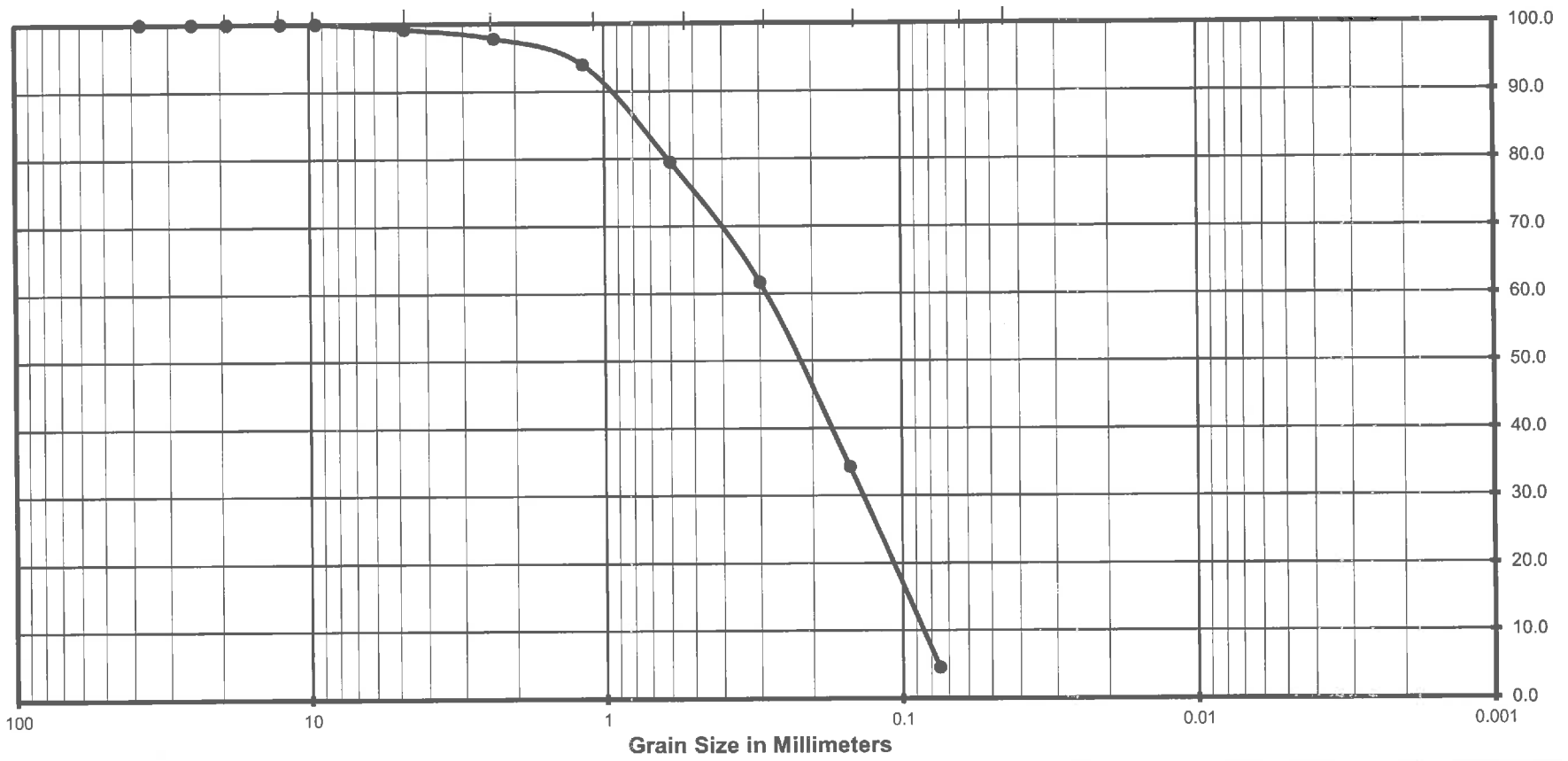
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 65'

Krazan Testing Laboratory

Grain Size Analysis



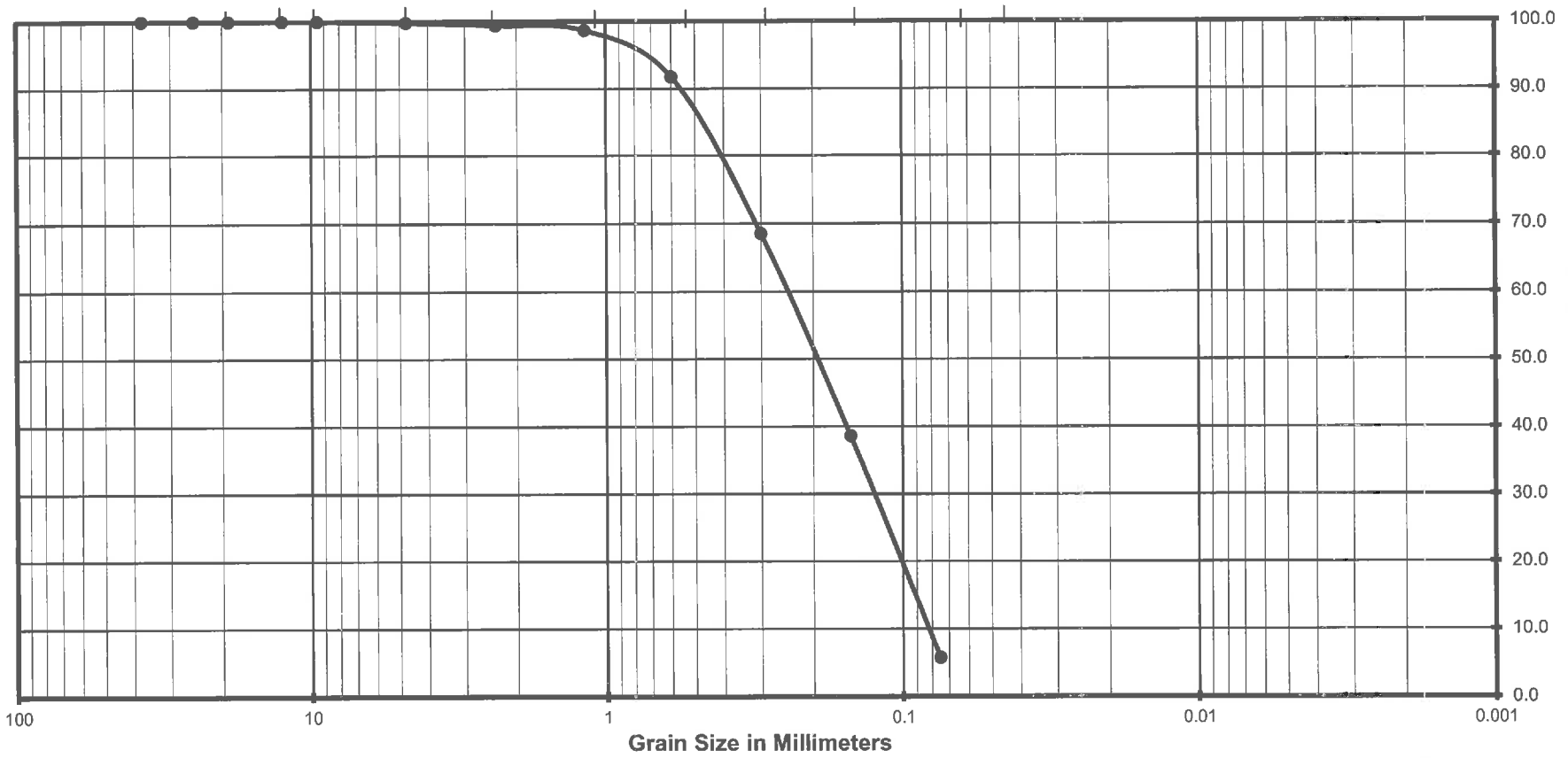
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 70'

Krazan Testing Laboratory

Grain Size Analysis



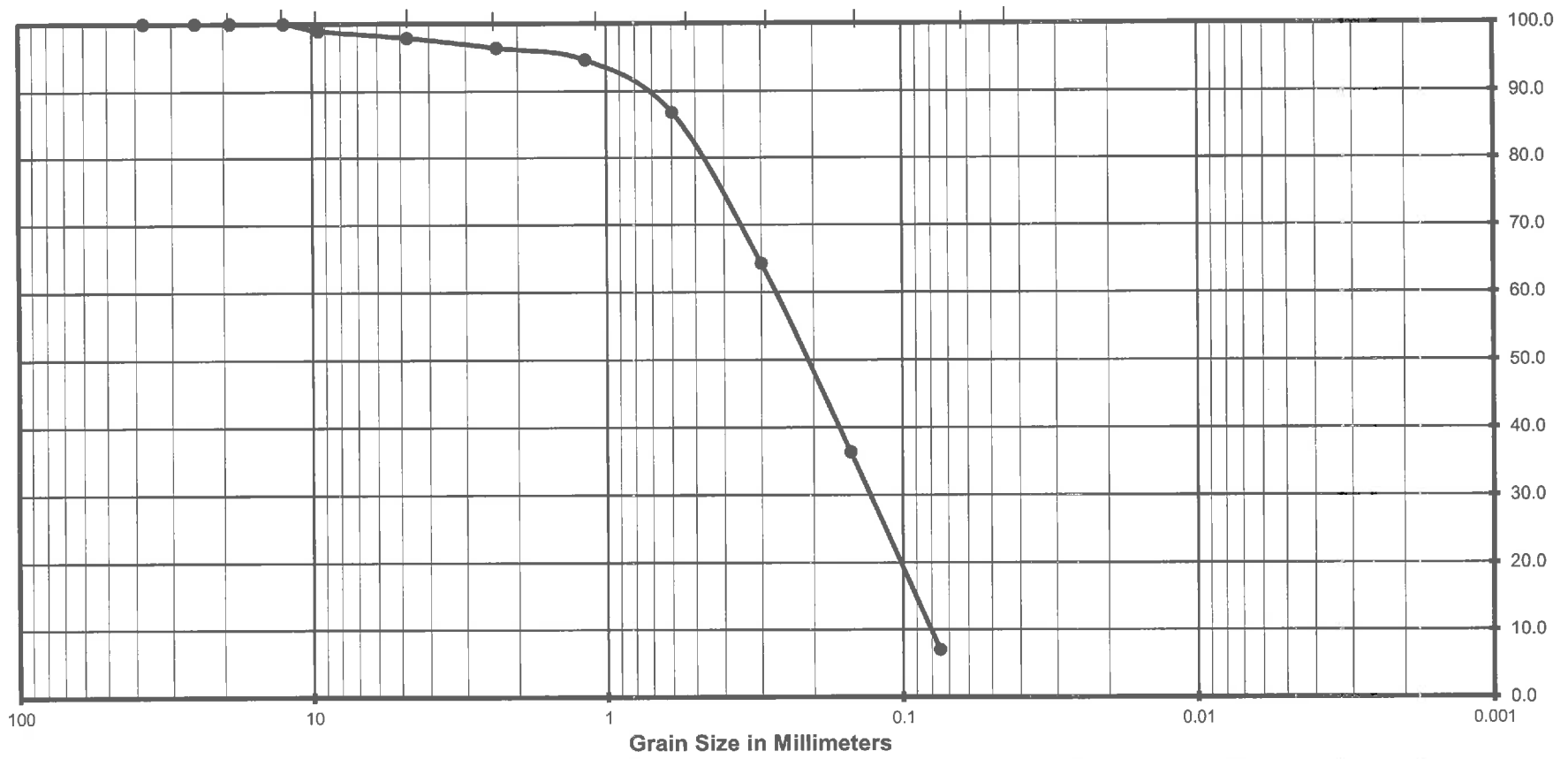
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 75'

Krazan Testing Laboratory

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

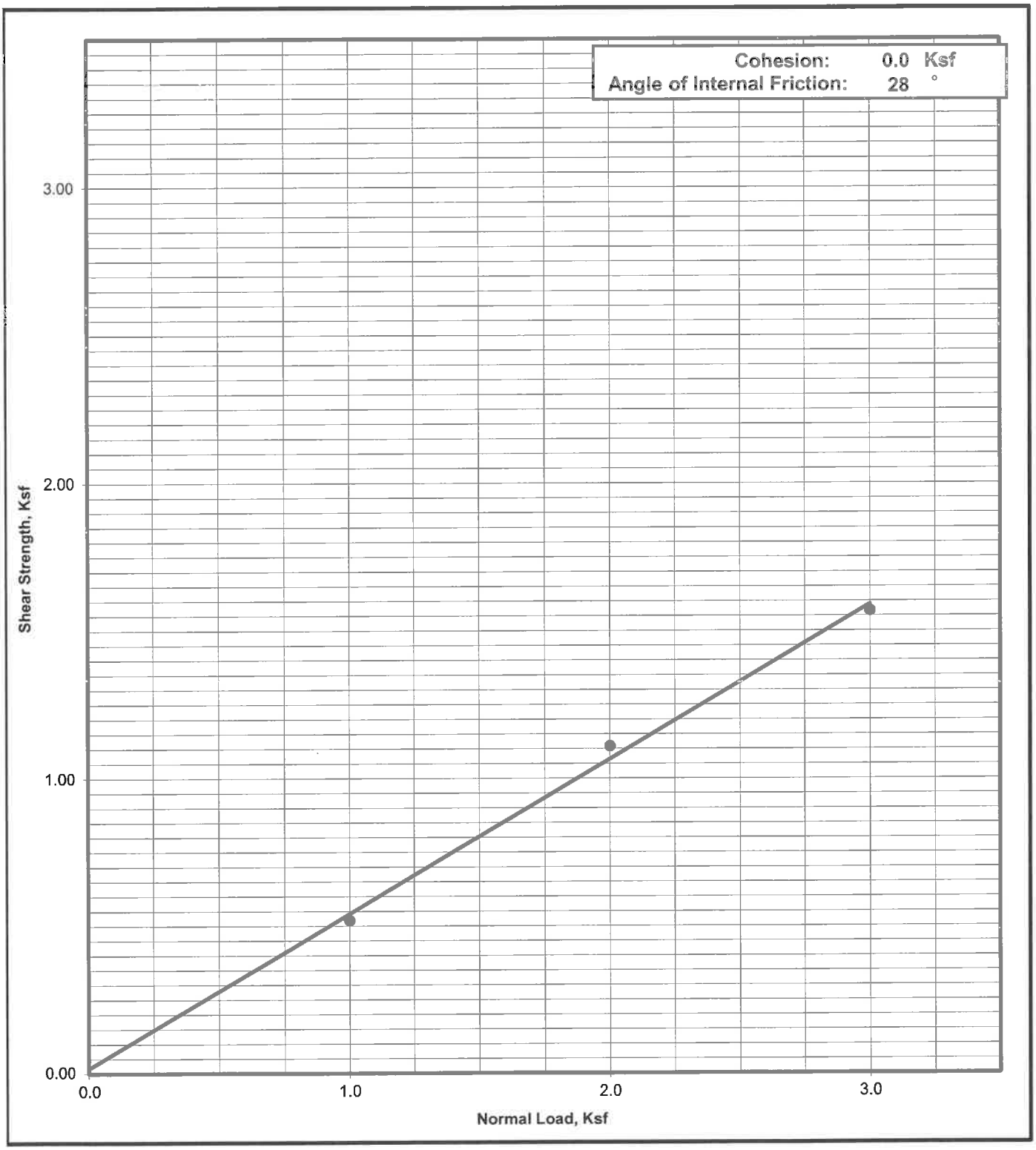
(Unified Soils Classification)

Project Name	Mixed Use Development LA
Project Number	11217043
Soil Classification	SP
Sample Number	B-1 @ 80'

Krazan Testing Laboratory

ASTM D - 3080 / AASHTO T - 236

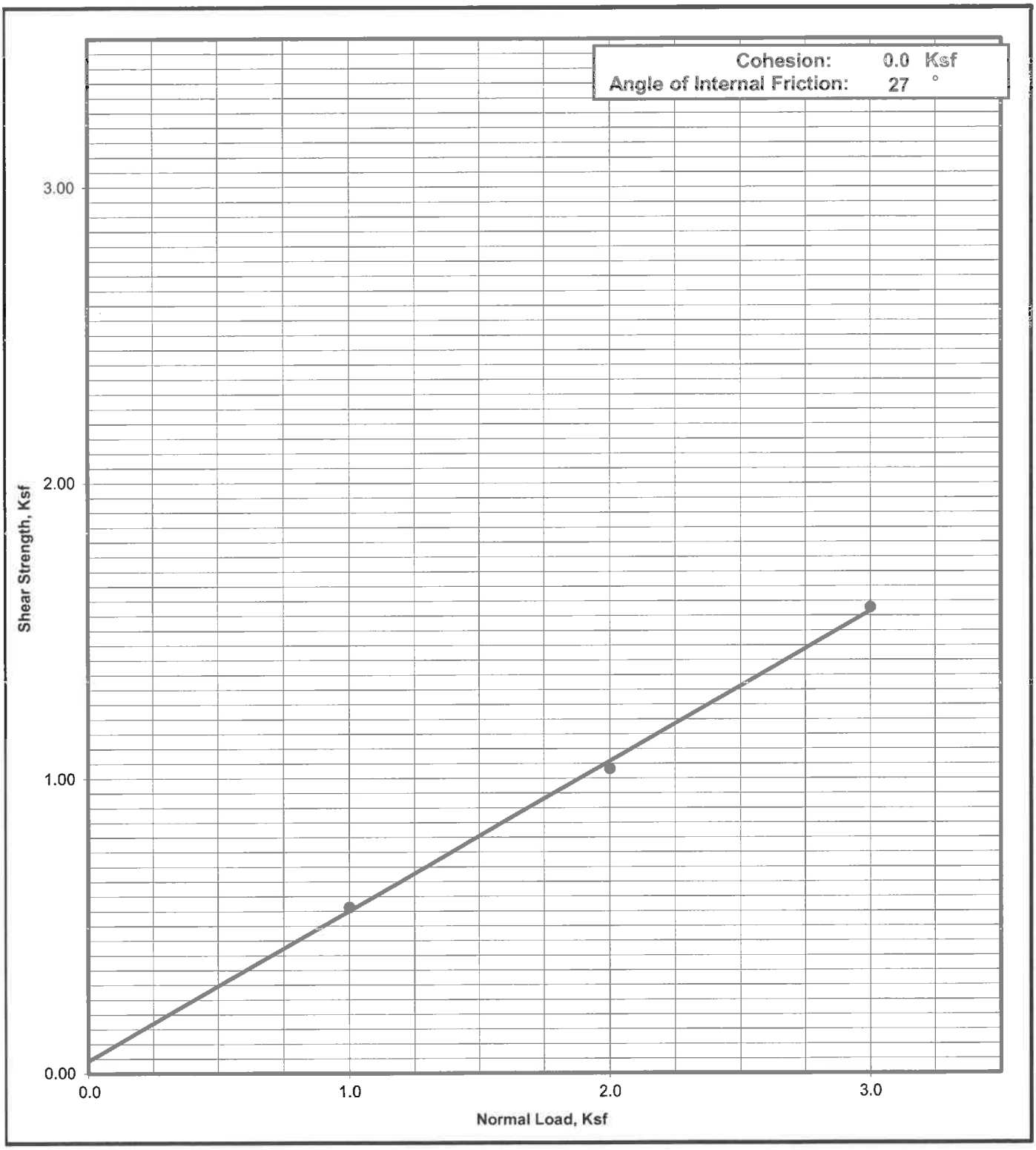
Project Number	Boring No. & Depth	Soil Type	Date
11217043	B-2 @ 5'	CL	6/26/2017



Krazan Testing Laboratory

ASTM D - 3080 / AASHTO T - 236

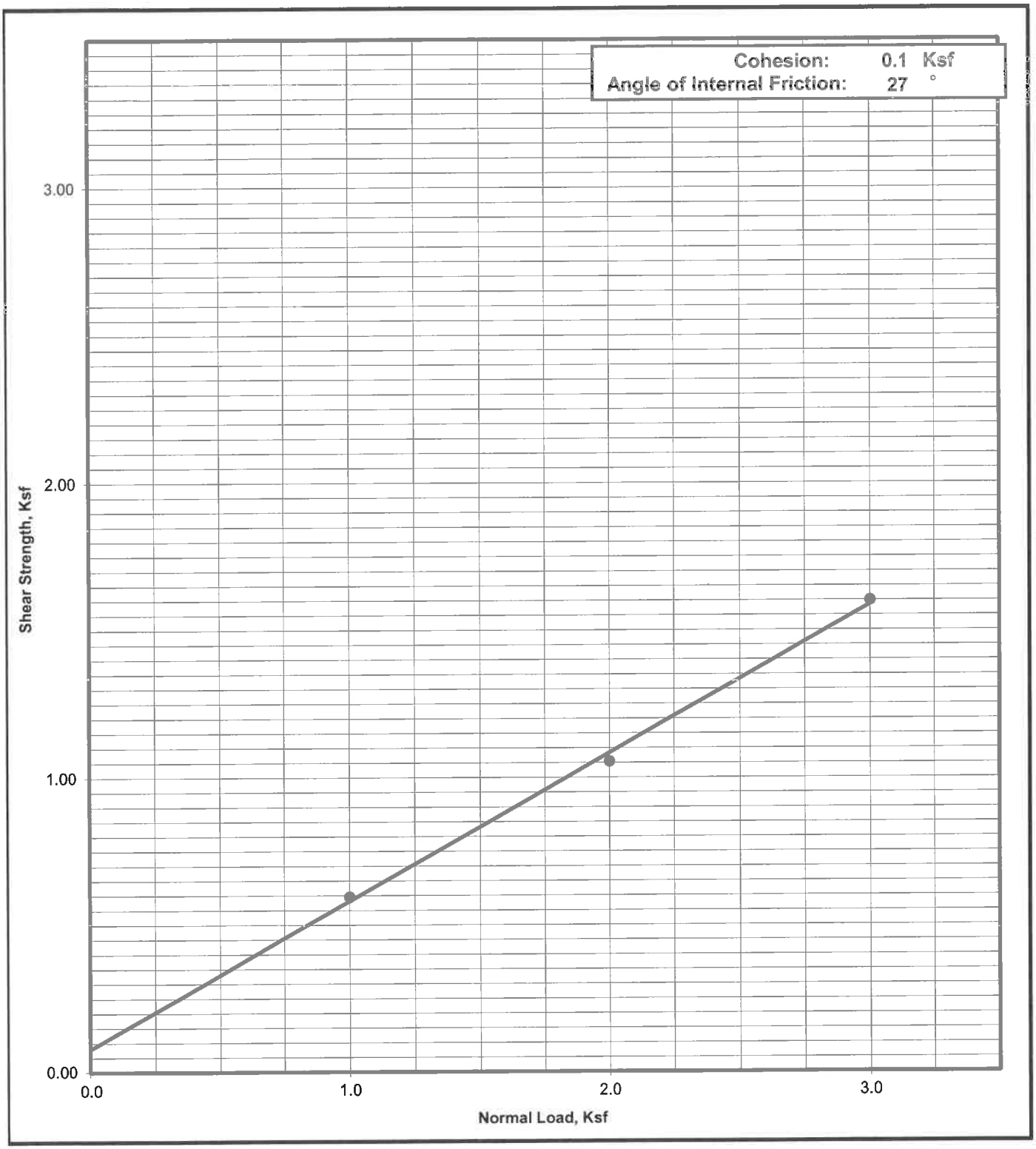
Project Number	Boring No. & Depth	Soil Type	Date
11217043	B-4 @ 5'	CL	6/26/2017



Krazan Testing Laboratory

ASTM D - 3080 / AASHTO T - 236

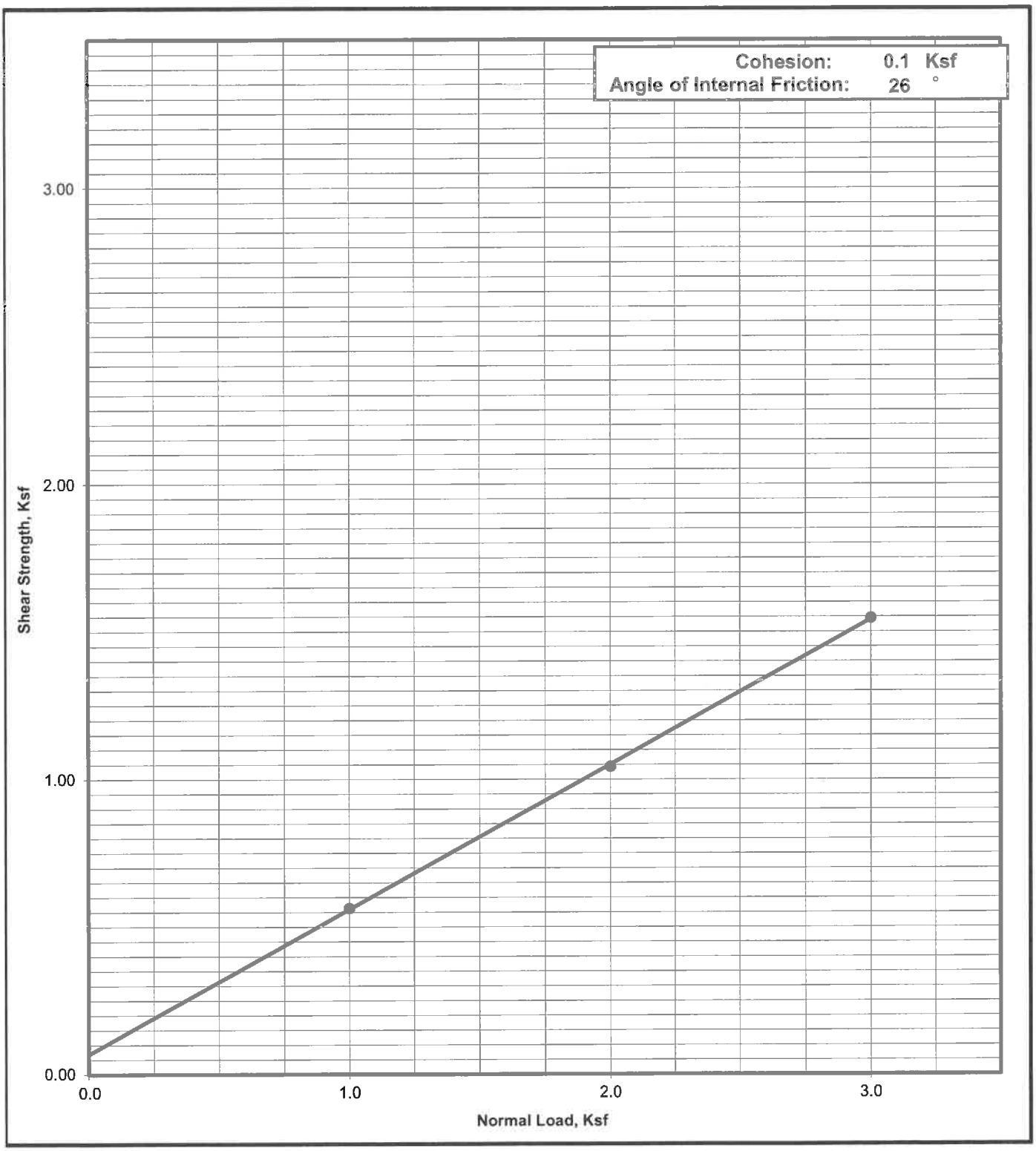
Project Number	Boring No. & Depth	Soil Type	Date
11217043	B-1 @ 30'	CL	6/27/2017



Krazan Testing Laboratory

ASTM D - 3080 / AASHTO T - 236

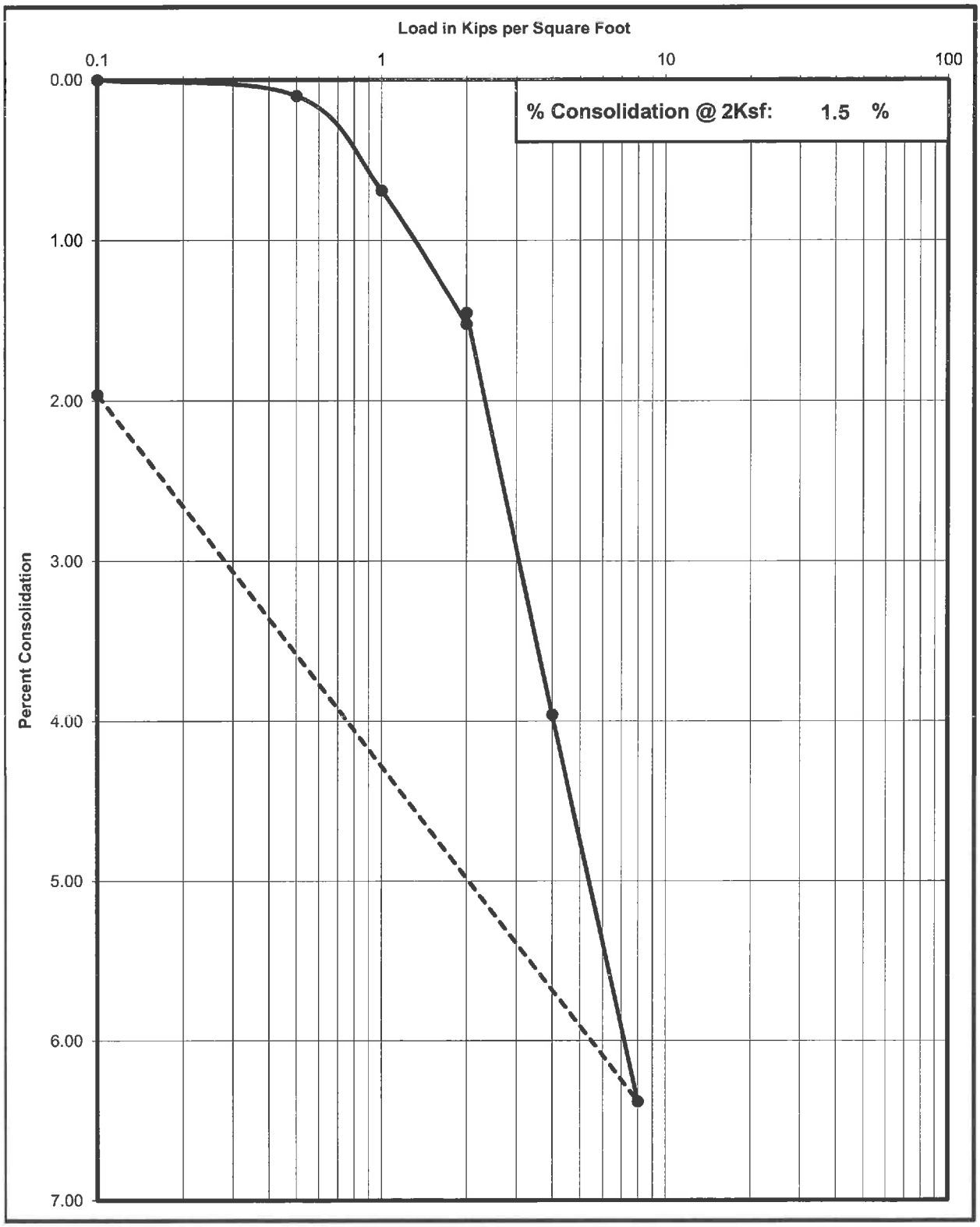
Project Number	Boring No. & Depth	Soil Type	Date
11217043	B-4 @ 30'	CL	6/27/2017



Krazan Testing Laboratory

Consolidation Test

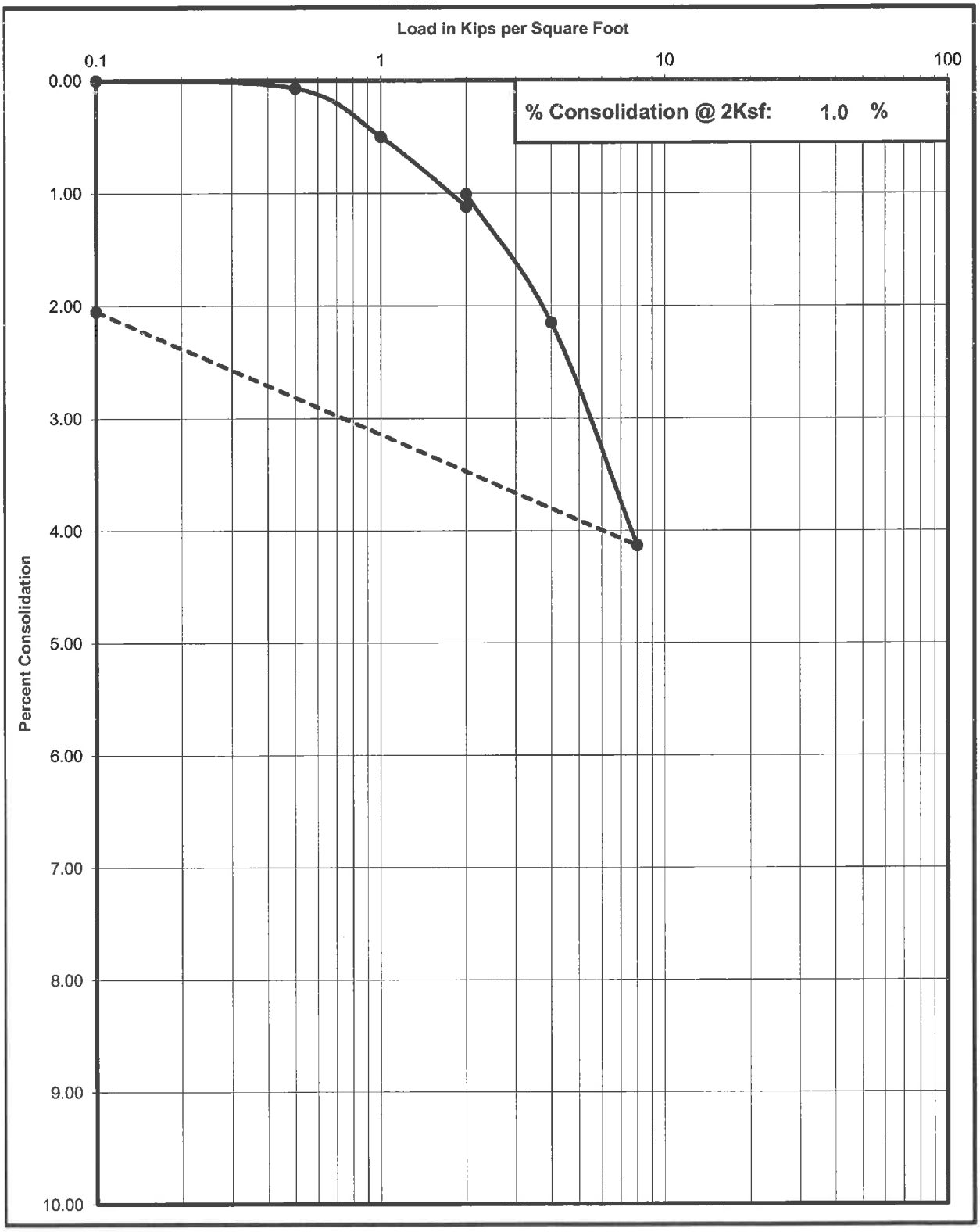
Project No	Boring No. & Depth	Date	Soil Classification
11217043	B-2 @ 5'	6/27/2017	CL



Krazan Testing Laboratory

Consolidation Test

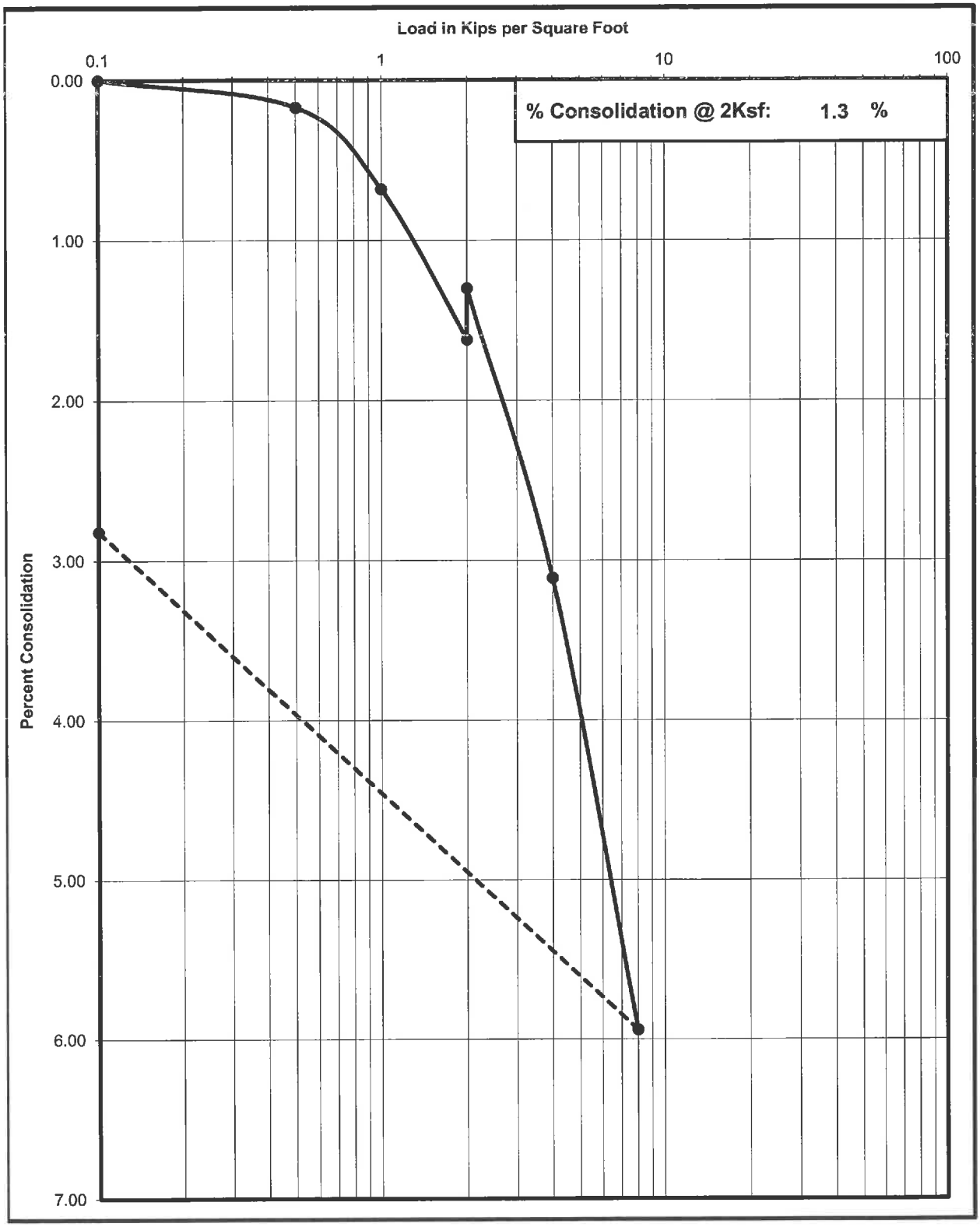
Project No	Boring No. & Depth	Date	Soil Classification
11217043	B-2 @ 10'	6/27/2017	CL



Krazan Testing Laboratory

Consolidation Test

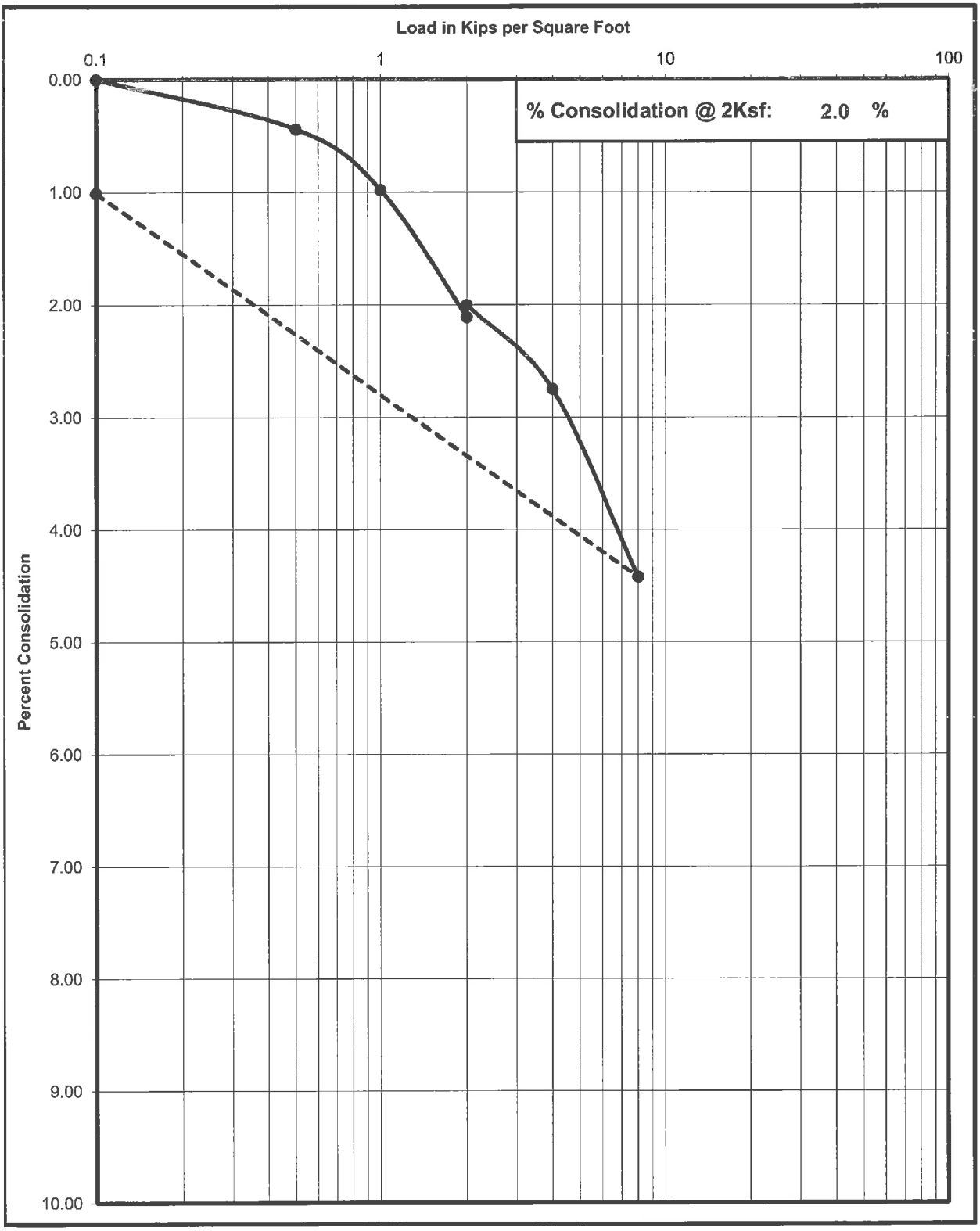
Project No	Boring No. & Depth	Date	Soil Classification
11217043	B-4 @ 5'	6/27/2017	CL



Krazan Testing Laboratory

Consolidation Test

Project No	Boring No. & Depth	Date	Soil Classification
11217043	B-4 @ 10'	6/27/2017	CL



Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829/ UBC Std. 18-2

Project Number	: 11217043
Project Name	: Mixed Use Development LA
Date	: 6/30/2017
Sample location/ Depth	: B-4 @ 0'-5'
Sample Number	: --
Soil Classification	: CL

Trial #	1	2	3
Weight of Soil & Mold, gms	545.8		
Weight of Mold, gms	172.4		
Weight of Soil, gms	373.4		
Wet Density, Lbs/cu.ft.	112.6		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	178.5		
Moisture Content, %	12.0		
Dry Density, Lbs/cu.ft.	100.5		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	48.1		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.059

Expansion Index $_{measured}$ = 59

Expansion Index $_{50}$ = 57.6

Expansion Index = 58

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

Expansion Index Test

ASTM D - 4829/ UBC Std. 18-2

Project Number	: 11217043
Project Name	: Mixed Use Development LA
Date	: 6/30/2017
Sample location/ Depth	: B-1 @ 0'-5'
Sample Number	: --
Soil Classification	: CL

Trial #	1	2	3
Weight of Soil & Mold, gms	554.0		
Weight of Mold, gms	171.0		
Weight of Soil, gms	383.0		
Wet Density, Lbs/cu.ft.	115.5		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	178.9		
Moisture Content, %	11.8		
Dry Density, Lbs/cu.ft.	103.3		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	50.5		

Time	Inital	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.055

Expansion Index $_{measured}$ = 55

Expansion Index $_{50}$ = 55.4

Expansion Index = 55

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Krazan Testing Laboratory

ANAHEIM TEST LAB, INC

3008 ORANGE AVENUE
SANTA ANA, CALIFORNIA 92707
PHONE (714) 549-7267

Krazan & Associates, Inc
1100 Olympic Drive, Ste. 103
Corona, CA 92881

DATE: 06/19/17

P.O. NO: Verbal

LAB NO: C-0676

SPECIFICATION: 417/422/643

MATERIAL: Soil

Project No: 11217043
Mixed Use Development
L.A.
B-1 @ 0-5'

ANALYTICAL REPORT

CORROSION SERIES
SUMMARY OF DATA

pH	SOLUBLE SULFATES per CA. 417 ppm	SOLUBLE CHLORIDES per CA. 422 ppm	MIN. RESISTIVITY per CA. 643 ohm-cm
6.9	160	139	3,100

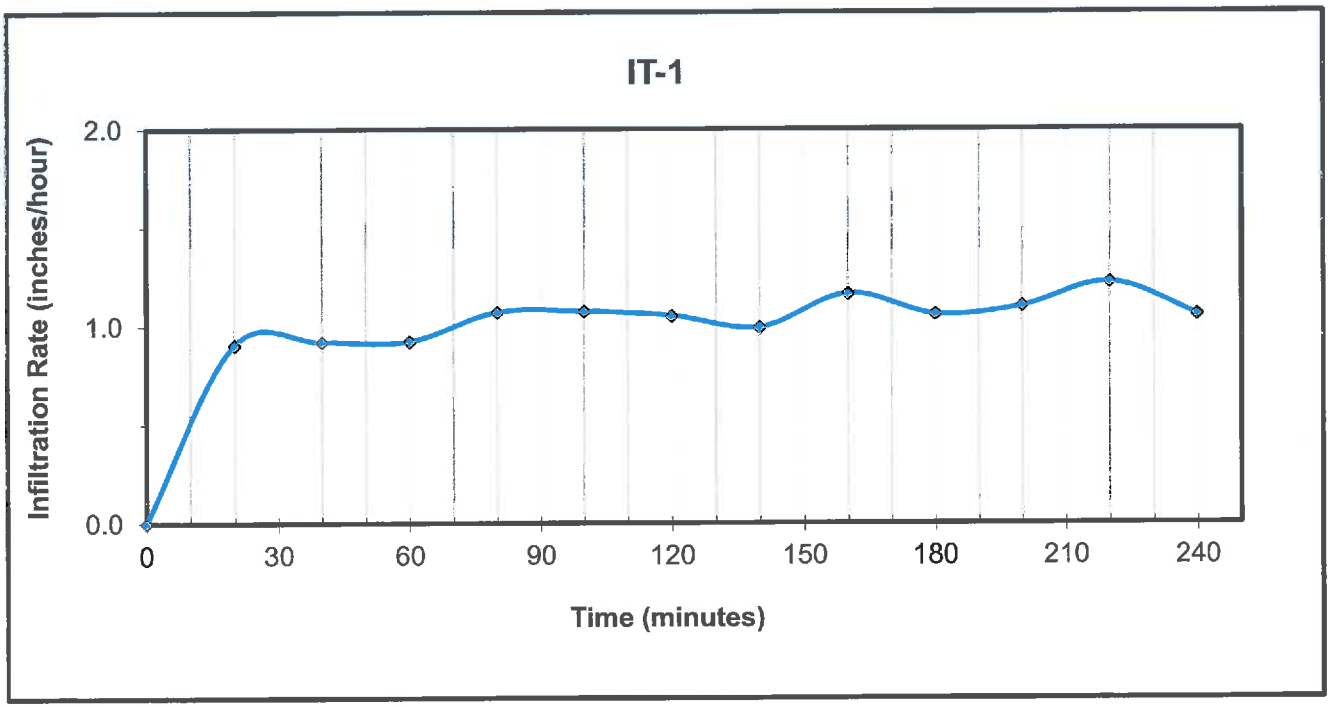
RESPECTFULLY SUBMITTED

WES BRIDGER CHEMIST

RESULTS OF INFILTRATION TESTS - REVERSE BOREHOLE

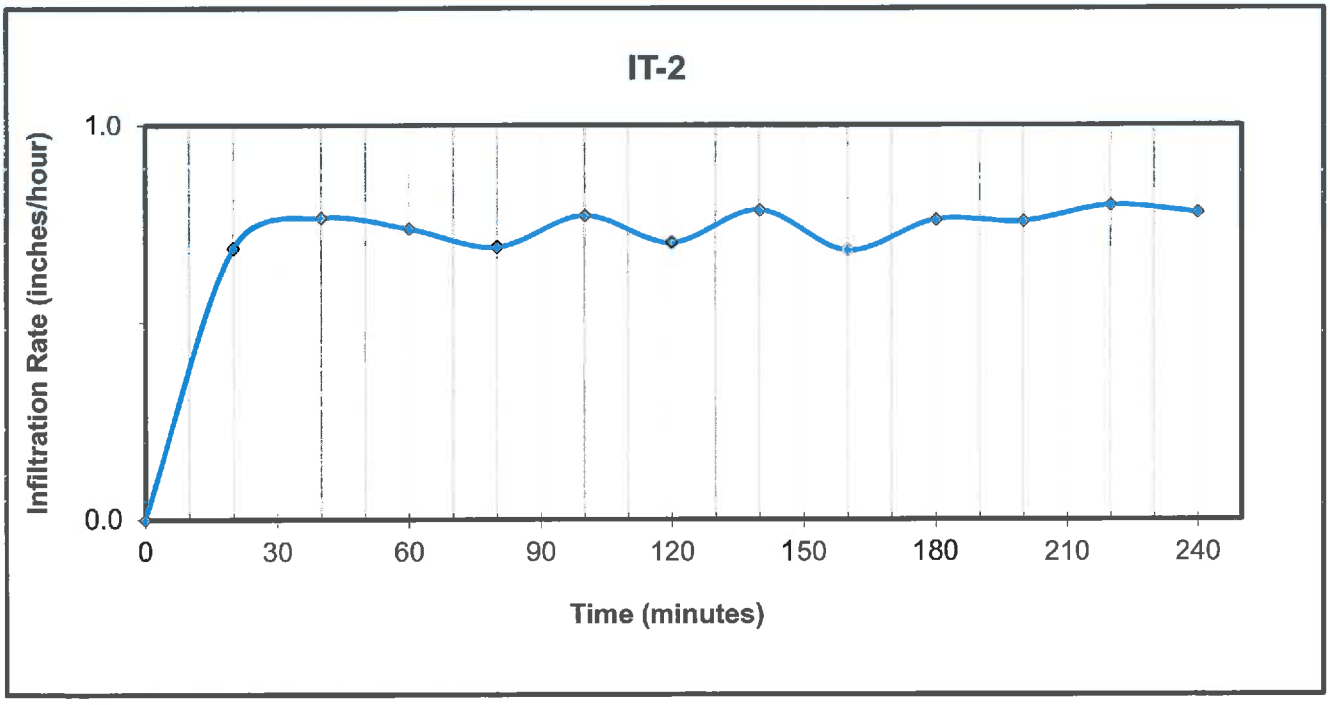
Project #	**11217043**				**Date**	**6/8/2017**
Project Name	Mixed Use Development Los Angeles					
Project Address	Los Angeles, California					
Test No:	IT-1	**Total Depth (in.)**		48	**Test Size (in)**	9
Depth To Water	20'	**Soil Classification**		CL		

Reading	Elasped Time(min.)	Incremental Time (min.)	Initial Depth To Water(in.)	Final Depth To Water(in.)	Incremental Fall of Water(in.)	Incremental Infiltration Rate (in/hr)
Start	0	0.00		5.5	--	--
1	20.00	20.00	5.5	10.5	5.00	0.91
2	40.00	20.00	10.5	15.0	4.50	0.92
3	60.00	20.00	15.0	19.0	4.00	0.92
4	80.00	20.00	19.0	23.0	4.00	1.07
5	100.00	20.00	23.0	26.5	3.50	1.07
6	120.00	20.00	26.5	29.5	3.00	1.05
7	140.00	20.00	29.5	32.0	2.50	0.99
8	160.00	20.00	32.0	34.5	2.50	1.16
9	180.00	20.00	34.5	36.5	2.00	1.06
10	200.00	20.00	36.5	38.3	1.80	1.10
11	220.00	20.00	38.3	40.0	1.70	1.22
12	240.00	20.00	40.0	41.3	1.30	1.06
	Infiltration Rate in Inches per Hour					**0.91**



RESULTS OF INFILTRATION TESTS - REVERSE BOREHOLE						
Project #	**11217043**				**Date**	**6/8/2017**
Project Name	Mixed Use Development Los Angeles					
Project Address	Los Angeles, California					
Test No:	IT-2	**Total Depth (in.)**		48	**Test Size (in)**	9
Depth To Water	20'	**Soil Classification**		CL		

Reading	Elasped Time(min.)	Incremental Time (min.)	Initial Depth To Water(in.)	Final Depth To Water(in.)	Incremental Fall of Water(in.)	Incremental Infiltration Rate (in/hr)
Start	0	0.00		5.0	--	--
1	20.00	20.00	5.0	9.0	4.00	0.69
2	40.00	20.00	9.0	13.0	4.00	0.77
3	60.00	20.00	13.0	16.5	3.50	0.74
4	80.00	20.00	16.5	19.5	3.00	0.69
5	100.00	20.00	19.5	22.5	3.00	0.77
6	120.00	20.00	22.5	25.0	2.50	0.70
7	140.00	20.00	25.0	27.5	2.50	0.78
8	160.00	20.00	27.5	29.5	2.00	0.68
9	180.00	20.00	29.5	31.5	2.00	0.76
10	200.00	20.00	31.5	33.3	1.80	0.76
11	220.00	20.00	33.3	35.0	1.70	0.80
12	240.00	20.00	35.0	36.5	1.50	0.78
	Infiltration Rate in Inches per Hour					**0.68**



Appendix B

General Earthwork Specifications

APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Soils Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner or the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less than 90 percent relative compaction based on ASTM Test Method D1557 or CAL-216, as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be as determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the Contract documents for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and the preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Soils Engineer to be deleterious or otherwise unsuitable. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree roots removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill of tree root excavations should not be permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Surfaces to receive Engineered Fill, building or slab loads shall be prepared as outlined above, excavated/scarified to a depth of 12 inches, moisture-conditioned as necessary, and compacted to 90 percent relative compaction.

Loose soil areas, areas of uncertified fill, and/or areas of disturbed soils shall be moisture-conditioned as necessary and recompacted to 90 percent relative compaction. All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas which are to receive fill materials shall be approved by the Soils Engineer prior to the placement of any of the fill material.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over-excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer.

Both cut and fill areas shall be surface-compacted to the satisfaction of the Soils Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill are as specified.

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Appendix C

General Paving Specifications

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term "Standard Specifications": hereinafter referred to is the May 2006 Standard Specifications of the State of California, Department of Transportation, and the "Materials Manual" is the Materials Manual of Testing and Control Procedures, State of California, Department of Public Works, Division of Highways. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as defined in the applicable tests outlined in the Materials Manual.

2. SCOPE OF WORK - This portion of the work shall include all labor, materials, tools, and equipment necessary for, and reasonably incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically noted as "Work Not Included."

3. PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 90 percent. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

4. UNTREATED AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class II material, 1½ inches maximum size. The aggregate base material shall be spread and compacted in accordance with Section 26 of the Standard Specifications. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Soils Engineer prior to the placement of successive layers. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent.

5. AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class II material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent, and it shall be spread and compacted in accordance with Section 25 of the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

6. ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10. The mineral aggregate shall be Type B, ½ inch maximum size, medium grading and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning and mixing of the materials shall conform to Section 39.

The prime coat, spreading and compacting equipment and spreading and compacting mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50° F. The surfacing shall be rolled with a combination of steel wheel and pneumatic rollers, as described in Section 39-6. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

7. FOG SEAL COAT - The fog seal (mixing type asphaltic emulsion) shall conform to and be applied in accordance with the requirements of Section 37.

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Testing · Management · Consulting

February 13, 2018

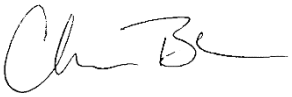
Derrick Willis
Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: Limited Asbestos and Lead Inspection
3rd and Fairfax - 6300 West 3rd Street
Los Angeles, California

Dear Mr. Willis:

Evista Industries, Inc., performed a limited asbestos and lead survey and assessment at the above referenced property on January 29 to February 2, 2018. This report demonstrates the complete results of our survey and inspection. We appreciate the opportunity to provide you with our services. Please feel free to contact us to discuss any portion of this report. We look forward to providing you with environmental services in the future.

Sincerely,



Chris Blake
Director of Consulting
CAC No. 01-3027
LRC-I/A, PM, PD No. 6283

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A. Introduction

Evista Industries, Inc., (Evista) collected bulk samples from suspect asbestos-containing and lead-based paint in order to determine the presence (if any) of asbestos and/or lead content within the K-mart, Little Caesar's, Kmart Shoes, Image Clothing, Payless Shoes, Wigs Today, Newstand and Andre's Italian Restaurant spaces at the subject property. As an established limitation to this service, the client has directed Evista to perform a limited asbestos, lead-based paint investigation and hazardous material inventory of the Kmart Store portion of the property. It should be noted that property was occupied at the time of the survey and therefore in some areas destructive sampling was not feasible. The survey was conducted by Chris Blake, an (Environmental Protection Agency) accredited building inspector and State of California and DOSH (Division of Occupational Safety and Health) Certified Asbestos Consultant, as well as a State of California Department of Public Health (CDPH) licensed Lead-Related Construction Inspector/Assessor.

The result of the sampling and subsequent analysis determined that the following suspect asbestos-containing materials collected and analyzed do contain asbestos fibers:

Kmart Store

- 12" White Vinyl Floor Tile and Mastic
- 12" Grey Vinyl Floor Tile and Mastic
- Fire Door Insulation
- 9" Beige Vinyl Floor Tile and Mastic
- 12" Acoustic Ceiling Tile Mastic
- TSI Pipe Insulation (Assumed)

Image Clothing

- Mirror Mastic (Assumed)

Payless Shoes

- Carpet Glue
- Fire Rated Doors (Assumed)

Wigs Today

- Mirror Mastic (Assumed)

Exterior

- Roof Penetration Mastic (Upper Roof)
- Roof Parapet (Lower Roof)
- Transite Pipe (Lower Roof)
- White Sealant (Lower Roof)

The result of the sampling and subsequent analysis determined that the following suspect asbestos-containing materials collected and analyzed do not contain asbestos fibers:

Kmart Store

- Vinyl Base Cove and Mastic
- Brown Linoleum and Mastic
- Wallboard
- Plaster
- 2'x 4' Acoustic Ceiling Panels
- Brown Vinyl Base Cove and Mastic
- 12" Acoustic Ceiling Tile (with Spline)

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- 12” Acoustic Ceiling Tile (glued)
- Fire Proofing

Little Caesar’s

- 12” Black Vinyl Floor Tile with Mastic
- 12” White Vinyl Floor Tile with Mastic
- 12” Green/Blue Vinyl Floor Tile with Mastic
- 12” Beige Vinyl Floor Tile with Mastic
- Black Vinyl Base Cove with Mastic
- Wallboard
- 2’x 2’ Acoustic Ceiling Panels

Kmart Shoes

- 12” Beige Vinyl Floor Tile with Mastic
- Black Vinyl Base Cove with Mastic
- Wallboard
- 2’x 4’ Acoustic Ceiling Panels
- 12” Acoustic Ceiling Tiles with Mastic
- Plaster

Image Clothing

- Wallboard
- 2’x 4’ Acoustic Ceiling Panels

Payless Shoes

- Wallboard
- 12” Grey Vinyl Floor Tile with Mastic
- Vinyl Base Cove with Mastic
- 2’x 4’ Acoustic Ceiling Panels
- Fire Proofing

Wigs Today

- Fire Proofing
- 2’x 4’ Acoustic Ceiling Panels
- Wallboard
- Grey/White Linoleum

Newstand

- Wallboard
- 12” Grey Vinyl Floor Tile with Mastic
- Vinyl Base Cove with Mastic
- 12” Acoustic Ceiling Tiles with Mastic
- Plaster
- 2’x 4’ Acoustic Ceiling Panels

Andre’s Italian Restaurant

- Wallboard
- Plaster
- 12” Acoustic Ceiling Tiles with Mastic

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- 2'x 2' Acoustic Ceiling Panels
- 2'x 4' Acoustic Ceiling Panels

Exterior

- Grey Rolled Roofing (upper roof)
- Roof Parapet Material (upper roof)
- Roofing Mastic (lower roof)
- Grey Rolled Roofing (lower roof)
- Grey Duct Sealant (lower roof)
- Stucco
- Plaster

Occupational Safety and Health Administration (OSHA) Federal, State (CALDOSH) and local regulatory agencies mandated that ACM regardless of quantity shall be handled (e.g. removal, repair, etc.) by Asbestos trained and qualified individual or Contractors. These identified ACMs should be removed by State licensed Asbestos Abatement Contractors prior to any demolition or construction activities, if these ACMs would be disturbed or impacted.

The lead-based inspection and XRF analysis has determined that the following suspect lead-containing paint contain lead in excess of 1.0 mg/cm^2:

Kmart Store

- Interior Red Plaster Wall (Top Level)

Little Caesar's

- Interior Green Ceramic Wall Tile

Exterior

- Exterior Beige Cinder Block Walls

Lead-Based Paint (LBP)*:* paint or other surface coating that contains lead equal to or in excess of 1.0 mg/cm^2 lead per surface area, 0.5% by weight, or 5,000 ppm.

B. Field Survey and Analytical Method

Evista's CAL DOSH Certified Asbestos Consultant performed the sampling activity in compliance with existing regulations. The survey included a visual inspection of the interior and exterior of the K-mart, Little Caesar's, Kmart Shoes, Image Clothing, Payless Shoes, Wigs Today, Newstand and Andre's Italian Restaurant spaces. Adequate quantities of material to be sampled, about 1/2 square inch, were obtained from suspect asbestos containing materials and placed inside a sterile airtight bag and sealed. All and each sample was then labeled with a Evista unique identification number for proper identification of each and every collected sample. Each sample was then logged on the Evista chain of custody sheet. Each sample container was then placed inside a larger sterile airtight bag.

(It is possible at times that the laboratory had their own chain of custody, and the receipt of the samples submitted would be indicated on their own (other laboratory) forms).

The following briefly describes the standard laboratory procedures utilized in the identification of the mineral asbestos in a bulk sample, which is done by microscopic analysis. Each and all laboratory testing was conducted in compliance with the EPA Interim Method for Determination of Asbestos in Bulk Samples (EPA-600/M4-20-020) per CFR 40 763. The samples were visually examined for homogeneity, and non-homogeneous samples were ground to ensure homogeneity. The microscopic slides were prepared from each sample using a refractive index liquid such as triacetin and ethyl

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cinnamate having a refractive index of 1.550; 1-bromonaphthalene and 1-Iodonaphthalene having a refractive index of 1.680; or, hydrogenated terthenyl and 1-bromonaphthalene having a refractive index of 1.605. Each slide was then examined for the presence of asbestos utilizing Polarized Light Microscopy (PLM) and Dispersion Staining techniques.

The percentage of asbestos on each sample was estimated microscopically by visual examination of fibers greater than 5 microns in length and with an aspect ratio of 3:1 or greater. The identity of asbestos fibers was confirmed with appropriate refractive index liquids, and the application of dispersion staining and other techniques.).

Sampling of painted/coated surfaces with suspect Lead-Based Paint was completed using an X-Ray Fluorescence Analyzer (XRF) (serial #93236). The California Department of Public Health currently defines LBP as paint with lead levels equal to or exceeding 1.0 milligram per square centimeter (mg/cm^2) or 0.5 percent (%) by weight (0.7 mg/cm^2 in Los Angeles County). However, the California Occupational Safety and Health Administration regulates paint with lead levels equal to or exceeding 0.1 mg/cm^2 or by 0.06 percent (%) by weight.

Calibration readings were taken at the beginning and the end of the inspection. Validation checks were taken against a known standard (test blocks) to verify that the instrument was functioning properly. Validation check procedures followed those outlined in the PCS for the Niton XLp-300A model. The test block has a lead level of 1.02 mg/cm^2. The instrument is considered to be working properly when the calibration check limits are measured between 0.8 and 1.2 mg/cm^2. Please see attachment for calibration check measurements and XRF readings.

XRF sampling was performed in accordance with the procedures outlined in the Performance Characteristics Sheets (PCS) provided by the manufacturer (Niton) of the instrument.

The procedures followed during the inspection are based on the highest industry standards used for residential or commercial properties which can be found in the United States Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" (June 1995, revised 1997), and Section 403 of the "Toxic Substances Control Act."

Additional painted/coated surfaces not listed in this report may be discovered and encountered and must be presumed to be lead-containing until sample collection and subsequent analysis prove otherwise.

All samples collected were submitted to LA Testing, 520 Mission Street in South Pasadena, CA 91030. LA Testing is a NVLAP approved laboratory (NVLAP #200232-0 and CA ELAP #2283) for asbestos and lead analysis in accordance with existing applicable Federal, State and local regulations.

C. Survey Results

Asbestos survey results are shown in Attachment section.

K-mart

Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Floors Throughout Lower Upper Store Levels and Top Floor	**12" White Vinyl Floor Tile with Mastic**	**5-10% Chrysotile**	**Good**	**Non-Friable**	**36,000 SF**
Interior Wall Bases	Vinyl Base Cove and Mastic	None Detected	Good	Non-Friable	--
Lower Level Floor at North Corner	Brown Linoleum and Mastic	None Detected	Good	Non-Friable	--

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Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Interior Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Interior Walls Throughout	Plaster	None Detected	Good	Non-Friable	--
Floors Throughout Lower Upper Store Levels and Top Floor	**12" Grey Vinyl Floor Tile with Mastic**	**5-8% Chrysotile**	**Good**	**Non-Friable**	**50,000 SF**
Lower Level South Stockroom	**Fire Door Insulation**	**20% Amosite**	**Damaged**	**Non-Friable**	**10 Each**
Lower Level Suspended Ceiling	2'x4" Acoustic Ceiling Panels	None Detected	Good	Friable	--
Interior Wall Bases	Brown Vinyl Base Cove and Mastic	None Detected	Good	Non-Friable	--
Top Floor Employee Areas, Offices & Stock Rooms Floors Throughout	**9" Beige Vinyl Floor Tile with Mastic**	**6-10% Chrysotile**	**Good**	**Non-Friable**	**27,000 SF**
Top Level Ceilings	12" Acoustic Ceiling Tiles with Spline	None Detected	Good	Friable	--
Top Floor Office and Hallway Ceilings Throughout	12" Acoustic Ceiling Tiles	None Detected	Good	Friable	--
Top Floor Office and Hallway Ceilings Throughout	**12" Acoustic Ceiling Tiles Mastic**	**3% Chrysotile**	**Good**	**Non-Friable**	**1,000 SF**
Top Level Deck and Beams	Fireproofing	None Detected	Good	Friable	--
Top Floor Mechanical Rooms	**TSI Pipe Insulation**	**Assumed**	**Good**	**Non-Friable**	**100 LF**

Little Caesars

Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Dining Room Floor	12" Black Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Dining Room Floor	12" White Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Dining Room Floor	12" Green/Blue Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Dining Room Floor	12" Beige Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Dining Room Wall Base	Black Vinyl Base Cove with Mastic	None Detected	Good	Non-Friable	--

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Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Ceilings Throughout	2'x2' Acoustic Ceiling Panels	None Detected	Good	Friable	--

Kmart Shoes

Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Interior Floors	12" Beige Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Wall Base Throughout	Black Vinyl Base Cove with Mastic	None Detected	Good	Non-Friable	--
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Drop Ceiling Throughout	2'x4' Acoustic Ceiling Panels	None Detected	Good	Friable	--
Upper Ceiling	12" Acoustic Ceiling Tiles with Mastic	None Detected	Good	Friable	--
Upper Ceiling (behind ceiling tiles)	Plaster	None Detected	Good	Non-Friable	--

Image Clothing

Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Ceilings Throughout	2'x4' Acoustic Ceiling Panels	None Detected	Good	Non-Friable	--
Changing Room Mirrors	**Mirror Mastic**	**Assumed**	**Good**	**Non-Friable**	**180 SF**

Payless Shoes

Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Back Storage Area and Office Floors	12" Grey Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Wall Base Throughout	Vinyl Base Cove with Mastic	None Detected	Good	Non-Friable	--
Ceilings Throughout	2'x4' Acoustic Ceiling Panels	None Detected	Good	Friable	--
Deck and Beams (above drop ceiling)	Fireproofing	None Detected	Good	Non-Friable	--
Main Floor Throughout (under carpet)	**Carpet Glue**	**10% Chrysotile**	**Good**	**Non-Friable**	**4,400 SF**

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Sample(S) Location(S)	Material(S)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Back Storage Room	**Fire Rated Door**	**Assumed**	**Good**	**Non-Friable**	**2 Each**

Wigs Today

Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Deck and Beams (above drop ceiling)	Fireproofing	None Detected	Good	Non-Friable	--
Ceiling Throughout	2' x 4' Acoustic Ceiling Panels	None Detected	Good	Non-Friable	--
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Bathroom Floor	Grey/White Linoleum	None Detected	Good	Non-Friable	--
Main Area and Storage Room Walls	**Mirror Mastic**	**Assumed**	**Good**	**Non-Friable**	**910 SF**

Newstand

Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Storage Room / Office Floor	12" Grey Vinyl Floor Tile with Mastic	None Detected	Good	Non-Friable	--
Wall Base Throughout	Vinyl Base Cove with Mastic	None Detected	Good	Non-Friable	--
Ceilings Throughout	12" Acoustic Ceiling Tiles with Mastic	None Detected	Good	Non-Friable	--
Ceilings (behind ceiling tiles)	Plaster	None Detected	Good	Non-Friable	--
Ceilings Throughout	2'x 4' Acoustic Ceiling Panels	None Detected	Good	Non-Friable	--
Main Floor	Carpet Glue	None Detected	Good	Non-Friable	--

Andre's Italian Restaurant

Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Dining Areas and Front Hall Walls Throughout	Wallboard	None Detected	Good	Non-Friable	--
Food Prep Areas and Storage Room Walls Throughout	Plaster	None Detected	Good	Non-Friable	--
Dining Areas 2 & 3 and Waiting Area Ceilings	12" Acoustic Ceiling Tiles with Mastic	None Detected	Good	Friable	--
Dining Area 1 Ceiling	2'x 2' Acoustic Ceiling Panels	None Detected	Good	Friable	--

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Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Food Prep Area 1 Ceiling	2' X 4' Acoustic Ceiling Panels	None Detected	Good	Friable	--

Exterior

Sample(s) Location(s)	Material(s)	Asbestos Content[2]	Condition	Friable/Non-Friable[1]	Quantity[3]
Upper Roof - Field	Grey Rolled Roofing	None Detected	Good	Non-Friable	--
Upper Roof – Roof Parapet	Roof Parapet	None Detected	Good	Non-Friable	--
Upper Roof – Roof at Penetrations and Seals	**Roofing Mastic**	**2% Chrysotile**	**Good**	**Non-Friable**	**200 SF**
Lower Roof – Roof at Penetrations and Seals	Roofing Mastic	None Detected	Good	Non-Friable	--
Lower Roof – Parapet Wall	**Roof Parapet**	**10% Chrysotile**	**Good**	**Non-Friable**	**850 SF**
Lower Roof – Field	Rolled Roofing Material (Grey)	None Detected	Good	Non-Friable	--
Lower Roof – Flue Pipes	**Transite Pipe**	**15% Chrysotile 10% Crocidolite**	**Good**	**Non-Friable**	**36 LF**
Lower Roof – Wall Vent Seals	**White Sealant**	**8% Chrysotile**	**Good**	**Non-Friable**	**250 LF**
Lower Roof – Duct Seams	Grey Sealant	None Detected	Good	Non-Friable	--
Exterior Walls	Stucco	None Detected	Good	Non-Friable	--
Exterior Corridor Walls	Plaster	None Detected	Good	Non-Friable	--

[1] Determination made based on condition of material(s) at time of survey without consideration for whether or not material(s) would be rendered friable based on removal method.

[2] See Regulatory Requirements section below for definition/additional information.

[3] Material quantities provided are estimates. Actual abatement quantities must be field verified by an abatement contractor prior to removal.

Additional materials not listed in this report may be discovered and encountered during the course of the project and must be presumed to be asbestos-containing material (ACM) until sample collection and subsequent analysis prove otherwise.

The following table summarizes the component, substrate, location, condition, color, and result of painted materials and surfaces that were tested for lead:

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Reading No	Date	Component	Substrate	Side	Condition	Color	Site	Room	Results	Depth Index	Action Level	PbC	PbC Error
1	1/29/18											1.11	0
2	1/29/18	CALIBRATE							Negative	1.04	1	0.9	0.1
3	1/29/18	CALIBRATE							Negative	1.12	1	0.8	0.2
4	1/29/18	CALIBRATE							Negative	1	1	0	0.02
5	1/29/18	CALIBRATE							Negative	1.02	1	0.7	0.3
6	1/29/18	CALIBRATE							Positive	1.11	1	1.1	0.1
7	1/29/18	WALL	PLASTER	A	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
8	1/29/18	WALL	DRYWALL	B	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
9	1/29/18	WALL	DRYWALL	B	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
10	1/29/18	WALL	DRYWALL	B	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
11	1/29/18	WALL	WOOD	B	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
12	1/29/18	WALL	DRYWALL	D	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
13	1/29/18	WALL	DRYWALL	D	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
14	1/29/18	DOOR	WOOD	D	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1.49	1	0.01	0.04
15	1/29/18	DOOR CASE	WOOD	D	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1.19	1	0.01	0.03
16	1/29/18	DOOR CASE	METAL	A	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
17	1/29/18	DOOR	METAL	A	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
18	1/29/18	COLUMN	CONCRETE	A	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
19	1/29/18	COLUMN	CONCRETE	B	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02

20	1/29/18	COLUMN	CONCRETE	C	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
21	1/29/18	COLUMN	CONCRETE	MID	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
22	1/29/18	COLUMN	DRYWALL	C	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
23	1/29/18	ESC WALL	DRYWALL	C	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
24	1/29/18	CEILING	PLASTER	C	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
25	1/29/18	REGISTER	METAL	C	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
26	1/29/18	ESC WALL	DRYWALL	A	INTACT	BEIGE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
27	1/29/18	CEILING	PLASTER	A	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1.22	1	0	0.02
28	1/29/18	DISPLAY WALL	DRYWALL	MID	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
29	1/29/18	DISPLAY WALL	DRYWALL	MID	INTACT	WHITE	KMART	LOWER LEVEL-MAIN	Negative	1	1	0	0.02
30	1/29/18	WALL	WOOD	A	FAIR	YELLOW	KMART	LOWER LEVEL-STOCK S	Negative	2.53	1	0.02	0.07
31	1/29/18	WALL	PLASTER	B	FAIR	YELLOW	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
32	1/29/18	WALL	PLASTER	A	FAIR	YELLOW	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
33	1/29/18	WALL	PLASTER	C	FAIR	YELLOW	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
34	1/29/18	WALL	METAL	C	FAIR	GREY	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0.01	0.05
35	1/29/18	DOOR	WOOD	C	FAIR	WHITE	KMART	LOWER LEVEL-STOCK S	Negative	2.43	1	0.01	0.05
36	1/29/18	DOOR	METAL	B	FAIR	GREY	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02

37	1/29/18	DOOR CASE	METAL	B	FAIR	GREY	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
38	1/29/18	COLUMN	METAL	A	FAIR	YELLOW	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
39	*1/29/18*	*DOOR CASE*	*METAL*	*C*	*FAIR*	*WHITE*	*KMART*	*LOWER LEVEL-STOCK S*	*Negative*	*1.24*	*1*	*0.2*	*0.17*
40	*1/29/18*	*DOOR CASE*	*METAL*	*C*	*FAIR*	*BLSCK*	*KMART*	*LOWER LEVEL-STOCK S*	*Negative*	*2.49*	*1*	*0.5*	*0.4*
41	1/29/18	DOOR	WOOD	C	FAIR	BLACK	KMART	LOWER LEVEL-STOCK S	Negative	3.3	1	0.03	0.12
42	1/29/18	DOOR	WOOD	C	FAIR	TAN	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
43	1/29/18	COLUMN	PLASTER	A	FAIR	RED	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
44	1/29/18	COLUMN	PLASTER	A	FAIR	GREY	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
45	1/29/18	WALL	PLASTER	C	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK S	Negative	1	1	0	0.02
46	1/29/18	SHELF SUPPORT	METAL	C	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK S	Negative	1.25	1	0.05	0.08
47	1/29/18	WALL	DRYWALL	A	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02
48	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02
49	1/29/18	WALL	PLASTER	C	FAIR	WHITE	KMART	LOWER LEVEL-STOCK W	Negative	1.54	1	0	0.02
50	1/29/18	WALL	CONCRETE	D	FAIR	WHITE	KMART	LOWER LEVEL-STOCK W	Negative	1.27	1	0	0.02
51	1/29/18	DOOR CASE	METAL	B	FAIR	WHITE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02
52	1/29/18	COLUMN	PLASTER	B	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02
53	1/29/18	CEILING	PLASTER	B	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02

54	1/29/18	CEILING	PLASTER	B	FAIR	BEIGE	KMART	LOWER LEVEL-STOCK W	Negative	1	1	0	0.02
55	1/29/18	COLUMN	PLASTER	B	FAIR	GREY	KMART	LOWER LEVEL-STOCK W	Negative	3.59	1	0.01	0.03
56	1/29/18	COLUMN	PLASTER	B	FAIR	RED	KMART	LOWER LEVEL-STOCK W	Negative	1.13	1	0	0.02
57	1/29/18	FLOOR	PLASTER	B	FAIR	GREY	KMART	LOWER LEVEL-STOCK W	Negative	2.75	1	0.01	0.03
58	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	1	1	0	0.02
59	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	1	1	0	0.02
60	1/29/18	WALL	DRYWALL	C	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	1	1	0	0.02
61	1/29/18	WALL	DRYWALL	D	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	1.01	1	0	0.02
62	1/29/18	DOOR	METAL	D	FAIR	GREY	KMART	LOWER LEVEL-JANITOR	Negative	1.89	1	0.01	0.04
63	1/29/18	DOOR CASE	METAL	D	FAIR	GREY	KMART	LOWER LEVEL-JANITOR	Negative	1.63	1	0	0.03
64	1/29/18	FLOOR	CERAMIC	D	FAIR	BEIGE	KMART	LOWER LEVEL-JANITOR	Negative	1	1	0	0.02
65	1/29/18	FLOOR	CERAMIC	D	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	1.87	1	0.01	0.02
66	1/29/18	BASEBOARD	CERAMIC	D	FAIR	WHITE	KMART	LOWER LEVEL-JANITOR	Negative	2.61	1	0.06	0.22
67	1/29/18	WALL	DRYWALL	A	FAIR	WHITE	KMART	LOWER LEVEL-STOCK E	Negative	1.01	1	0.01	0.03
68	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	LOWER LEVEL-STOCK E	Negative	1.71	1	0	0.02
69	1/29/18	WALL	DRYWALL	C	FAIR	WHITE	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02
70	1/29/18	WALL	WOOD	B	FAIR	ORANGE	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02

71	1/29/18	COLUMN	WOOD	A	FAIR	BROWN	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02
72	1/29/18	DOOR	METAL	D	FAIR	GREY	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02
73	1/29/18	DOOR CASE	METAL	D	FAIR	BLACK	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02
74	*1/29/18*	*DOOR CASE*	*METAL*	*A*	*FAIR*	*BROWN*	*KMART*	*LOWER LEVEL-STOCK E*	*Negative*	*2.09*	*1*	*0.25*	*0.25*
75	1/29/18	DOOR	WOOD	A	FAIR	BROWN	KMART	LOWER LEVEL-STOCK E	Negative	1	1	0	0.02
76	1/29/18	WALL	DRYWALL	A	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
77	1/29/18	WALL	DRYWALL	A	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
78	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
79	1/29/18	WALL	DRYWALL	B	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1.42	1	0	0.02
80	1/29/18	WALL	DRYWALL	C	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	2.67	1	0.01	0.05
81	1/29/18	WALL	DRYWALL	C	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
82	1/29/18	WALL	DRYWALL	D	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
83	1/29/18	WALL	DRYWALL	D	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	2.79	1	0.01	0.03
84	1/29/18	DOOR	METAL	C	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
85	1/29/18	DOOR CASE	METAL	C	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
86	1/29/18	DOOR	METAL	C	FAIR	GREY	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
87	1/29/18	CASE	METAL	C	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02

88	1/29/18	COLUMN	CONCRETE	B	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1.24	1	0	0.02
89	1/29/18	COLUMN	CONCRETE	MID	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
90	1/29/18	COLUMN	CONCRETE	D	FAIR	WHITE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
91	1/29/18	WALL	DRYWALL	D	FAIR	BEIGE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
92	1/29/18	DOOR	METAL	A	INTACT	BLACK	KMART	UPPEF LEVEL-MAIN	Negative	1.05	1	0	0.02
93	1/29/18	DOOR CASE	METAL	A	INTACT	BLACK	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
94	1/29/18	FLOOR	TERRAZZO	B	INTACT	BEIGE	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
95	1/29/18	WINDOW	METAL	B	INTACT	BLACK	KMART	UPPEF LEVEL-MAIN	Negative	1	1	0	0.02
96	1/29/18	WALL	DRYWALL	A	INTACT	WHITE	KMART	UPPEF LEVEL- E OFFICE	Negative	1	1	0	0.02
97	1/29/18	WALL	DRYWALL	C	INTACT	WHITE	KMART	UPPEF LEVEL- E OFFICE	Negative	1	1	0	0.02
98	1/29/18	DOOR	METAL	D	INTACT	GREY	KMART	UPPEF LEVEL- E OFFICE	Negative	1	1	0	0.02
99	1/29/18	DOOR CASE	METAL	D	INTACT	ORANGE	KMART	UPPEF LEVEL- E OFFICE	Negative	1	1	0	0.02
100	1/29/18	DOOR CASE	DRYWALL	A	INTACT	WHITE	KMART	UPPEF LEVEL-STORAGE	Negative	1	1	0	0.02
101	1/29/18	DOOR CASE	DRYWALL	B	INTACT	WHITE	KMART	UPPEF LEVEL-STORAGE	Negative	1	1	0	0.02
102	1/29/18	DOOR CASE	DRYWALL	B	INTACT	GREY	KMART	UPPEF LEVEL-STORAGE	Negative	1	1	0	0.02
103	1/29/18	DOOR	WOOD	B	INTACT	GREY	KMART	UPPEF LEVEL-STORAGE	Negative	1	1	0	0.02
104	1/29/18	WALL	CERAMIC	B	INTACT	TAN	KMART	UPPEF LEVEL- E ENTRY	Negative	2.98	1	0.02	0.03

105	1/29/18	WALL	CERAMIC	D	INTACT	TAN	KMART	UPPEF LEVEL- E ENTRY	Negative	1	1	0	0.02
106	1/29/18	DOOR	METAL	B	INTACT	BLACK	KMART	UPPEF LEVEL- E ENTRY	Negative	1	1	0	0.02
107	1/29/18	WINDOW	METAL	B	INTACT	BLACK	KMART	UPPEF LEVEL- E ENTRY	Negative	1	1	0	0.02
108	*1/29/18*	*WALL STAIR*	*METAL*	*D*	*INTACT*	*BROWN*	*KMART*	*UPPEF LEVEL- E ENTRY*	*Negative*	*7.82*	*1*	*0.18*	*0.13*
109	1/29/18	STAIR BARS	METAL	B	INTACT	BLACK	KMART	UPPEF LEVEL- E ENTRY	Negative	1	1	0	0.02
110	*1/29/18*	*WALL*	*DRYWALL*	*C*	*INTACT*	*ORANGE*	*KMART*	*UPPEF LEVEL- E ENTRY*	*Negative*	*3.68*	*1*	*0.8*	*0.2*
111	1/29/18	WALL	DRYWALL	A	INTACT	BEIGE	KMART	TOP LEVEL	Negative	1.24	1	0.01	0.03
112	1/29/18	WALL	DRYWALL	A	INTACT	WHITE	KMART	TOP LEVEL	Negative	1	1	0	0.02
113	1/29/18	WALL	DRYWALL	B	INTACT	WHITE	KMART	TOP LEVEL	Negative	1.13	1	0.01	0.02
114	*1/29/18*	*WALL*	*DRYWALL*	*B*	*INTACT*	*TAN*	*KMART*	*TOP LEVEL*	*Negative*	*6.23*	*1*	*0.16*	*0.31*
115	*1/29/18*	*WALL*	*DRYWALL*	*C*	*INTACT*	*TAN*	*KMART*	*TOP LEVEL*	*Negative*	*7.43*	*1*	*0.24*	*0.33*
116	1/29/18	WALL	DRYWALL	C	INTACT	TAN	KMART	TOP LEVEL	Negative	1	1	0	0.02
117	1/29/18	WALL	DRYWALL	D	INTACT	TAN	KMART	TOP LEVEL	Negative	1	1	0	0.02
118	1/29/18	WALL	DRYWALL	D	INTACT	BEIGE	KMART	TOP LEVEL	Negative	1	1	0	0.02
119	*1/29/18*	*WALL*	*DRYWALL*	*D*	*INTACT*	*BEIGE*	*KMART*	*TOP LEVEL*	*Negative*	*7.94*	*1*	*0.18*	*0.17*
120	1/29/18	DOOR CASE	DRYWALL	D	INTACT	BROWN	KMART	TOP LEVEL	Negative	1	1	0	0.02
121	1/29/18	DOOR CASE	DRYWALL	D	INTACT	BROWN	KMART	TOP LEVEL	Negative	1	1	0	0.02
122	1/29/18	DOOR CASE	DRYWALL	D	INTACT	WHITE	KMART	TOP LEVEL	Negative	1	1	0	0.02
123	1/29/18	DOOR CASE	WOOD	B	INTACT	BROWN	KMART	TOP LEVEL	Negative	1	1	0	0.02
124	1/29/18	DOOR CASE	WOOD	B	INTACT	BROWN	KMART	TOP LEVEL	Negative	1.09	1	0	0.02
125	1/29/18	DOOR	WOOD	B	INTACT	BROWN	KMART	TOP LEVEL	Negative	1	1	0	0.02
126	1/29/18	BASEBOARD	WOOD	B	INTACT	BROWN	KMART	TOP LEVEL	Negative	1	1	0	0.02
127	1/29/18	DOOR	WOOD	B	INTACT	ORANGE	KMART	TOP LEVEL	Negative	1.69	1	0.03	0.08
128	1/29/18	DOOR	WOOD	C	INTACT	ORANGE	KMART	TOP LEVEL	Negative	1	1	0.01	0.04

129	**1/29/18**	**WALL**	**PLASTER**	**C**	**INTACT**	**RED**	**KMART**	**TOP LEVEL**	**Positive**	**1.02**	**1**	**1.5**	**0.4**
130	1/29/18	WALL	PLASTER	C	INTACT	GREEN	KMART	TOP LEVEL	Negative	3.34	1	0.09	0.14
131	1/29/18	WALL	BRICK	C	INTACT	TAN	KMART	TOP LEVEL	Negative	7.99	1	0.04	0.09
132	1/29/18	WALL	CERAMIC	A	INTACT	WHITE	KMART	TOP LEVEL BATH	Negative	1.16	1	0.01	0.04
133	1/29/18	FLOOR	CERAMIC	A	INTACT	GREY	KMART	TOP LEVEL BATH	Negative	1	1	0	0.02
134	1/29/18	CALIBRATE							Positive	1.09	1	1	0.1
135	1/29/18	CALIBRATE							Negative	1	1	0.7	0.3
136	1/29/18	CALIBRATE							Negative	1	1	0	0.02
137	1/29/18	WALL	WOOD	A	INTACT	ORANGE	LITTLE CAESARS	DINING ROOM	Null	10	1	0.07	1.19
138	1/29/18	WALL	WOOD	A	INTACT	ORANGE	LITTLE CAESARS	DINING ROOM	Negative	1	1	0	0.02
139	1/29/18	WALL	DRYWALL	A	INTACT	WHITE	LITTLE CAESARS	DINING ROOM	Negative	1	1	0	0.02
140	*1/29/18*	*WALL*	*DRYWALL*	*D*	*INTACT*	*WHITE*	*LITTLE CAESARS*	*DINING ROOM*	*Negative*	*1*	*1*	*0.5*	*0.4*
141	1/29/18	WALL	WOOD	C	INTACT	ORANGE	LITTLE CAESARS	DINING ROOM	Negative	1	1	0	0.02
142	1/29/18	WALL	METAL	A	INTACT	BLACK	LITTLE CAESARS	DINING ROOM	Negative	4.21	1	-0.41	1.38
143	1/29/18	DOOR	METAL	A	INTACT	BLACK	LITTLE CAESARS	DINING ROOM	Negative	1	1	0	0.02
144	1/29/18	WINDOW	METAL	A	INTACT	BLACK	LITTLE CAESARS	DINING ROOM	Negative	1	1	0	0.02
145	1/29/18	WINDOW	DRYWALL	A	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
146	1/29/18	WINDOW	DRYWALL	B	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02

147	1/29/18	WINDOW	DRYWALL	C	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
148	1/29/18	WINDOW	DRYWALL	D	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
149	1/29/18	DOOR	METAL	D	INTACT	GREY	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
150	1/29/18	DOOR CASE	METAL	D	INTACT	GREY	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
151	1/29/18	DOOR CASE	METAL	D	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
152	1/29/18	FLOOR	CERAMIC	D	INTACT	GREY	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
153	1/29/18	FLOOR	CERAMIC	D	INTACT	GREY	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	3.37	1	0.02	0.04
154	1/29/18	CEILING	DRYWALL	D	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
155	1/29/18	WALL	CERAMIC	D	INTACT	WHITE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1.13	1	0.05	0.11
156	**1/29/18**	**WALL**	**CERAMIC**	**D**	**INTACT**	**GREEN**	**LITTLE CAESARS**	**FOOD PREP AREA PREP-COUNTER**	**Positive**	**1.93**	**1**	**7.7**	**6**
157	1/29/18	DOOR	WOOD	B	INTACT	ORANGE	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02

158	1/29/18	SIGN TRIM	WOOD	B	INTACT	RED	LITTLE CAESARS	FOOD PREP AREA PREP-COUNTER	Negative	1	1	0	0.02
159	1/29/18	WALL	CERAMIC	A	INTACT	WHITE	KMART	BATHROOM	Negative	4.09	1	0.03	0.1
160	1/29/18	WALL	CERAMIC	D	INTACT	WHITE	KMART	BATHROOM	Negative	3	1	0.03	0.09
161	1/29/18	WALL	CERAMIC	D	INTACT	GREY	KMART	BATHROOM	Negative	6.43	1	0.09	0.25
162	1/29/18	CEILING	DRYWALL	D	INTACT	WHITE	KMART	BATHROOM	Negative	3.93	1	0.01	0.06
163	1/29/18	DOOR	METAL	D	INTACT	WHITE	KMART	BATHROOM	Null	1	1	0	0.02
164	1/29/18	DOOR	METAL	D	INTACT	WHITE	KMART	BATHROOM	Negative	1	1	0	0.02
165	1/29/18	DOOR CASE	METAL	D	INTACT	WHITE	KMART	BATHROOM	Negative	1	1	0	0.02
166	1/29/18	CALIBRATE							Positive	1.04	1	1.5	0.5
167	1/29/18	CALIBRATE							Positive	1.04	1	1.6	0.6
168	1/29/18	CALIBRATE							Positive	1.13	1	1.7	0.7
169	1/29/18	CALIBRATE							Negative	1	1	0.7	0.3
170	1/29/18	CALIBRATE							Negative	1	1	0	0.02
171	1/30/18											1.06	0
172	1/30/18	CALIBRATE							Positive	1.09	1	1	0.1
173	1/30/18	CALIBRATE							Negative	1.03	1	0.6	0.3
174	1/30/18	CALIBRATE							Negative	1	1	0	0.02
175	1/30/18	WALL	DRYWALL	B	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
176	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	KMART SHOES	MAIN	Null	1	1	0.01	0.12
177	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
178	1/30/18	WALL	CONCRETE	C	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
179	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
180	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
181	1/30/18	WINDOW	DRYWALL	A	INTACT	BLACK	KMART SHOES	MAIN	Negative	2.76	1	-0.17	1.15

182	1/30/18	DOOR	DRYWALL	A	INTACT	BLACK	KMART SHOES	MAIN	Negative	1	1	0	0.02
183	1/30/18	DOOR	WOOD	D	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
184	1/30/18	DOOR CASE	WOOD	D	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
185	1/30/18	CABINET	METAL	C	INTACT	WHITE	KMART SHOES	MAIN	Negative	1	1	0	0.02
186	1/30/18	CABINET	METAL	B	INTACT	GREY	KMART SHOES	MAIN	Negative	1	1	0	0.02
187	1/30/18	CALIBRATE							Positive	1.24	1	1.2	0.2
188	1/30/18	CALIBRATE							Positive	1.18	1	1.2	0.2
189	1/30/18	CALIBRATE							Negative	1	1	0.7	0.3
190	1/30/18	WALL	DRYWALL	A	INTACT	WHITE	IMAGE	MAIN	Negative	1	1	0	0.02
191	1/30/18	WALL	DRYWALL	B	INTACT	WHITE	IMAGE	MAIN	Negative	1	1	0	0.02
192	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	IMAGE	MAIN	Negative	5.55	1	0.02	0.13
193	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	IMAGE	MAIN	Negative	1	1	0	0.02
194	1/30/18	DOOR	METAL	D	INTACT	WHITE	IMAGE	MAIN	Negative	3	1	-0.65	1.58
195	1/30/18	FLOOR	CERAMIC	D	INTACT	BEIGE	IMAGE	MAIN	Negative	1.58	1	0.05	0.08
196	1/30/18	FLOOR	WOOD	D	INTACT	TAN	IMAGE	MAIN	Negative	2.97	1	0.02	0.09
197	1/30/18	FLOOR	WOOD	D	INTACT	TAN	IMAGE	MAIN	Negative	1	1	0	0.02
198	1/30/18	BASEBOARD	WOOD	B	INTACT	WHITE	IMAGE	MAIN	Negative	1	1	0	0.02
199	1/30/18	WALL	DRYWALL	A	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
200	1/30/18	WALL	DRYWALL	B	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
201	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	2.26	1	0.01	0.04
202	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
203	1/30/18	WALL	WOOD	B	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02

204	1/30/18	DOOR CASE	WOOD	B	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
205	1/30/18	BASEBOARD	WOOD	B	INTACT	WHITE	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
206	1/30/18	FLOOR	WOOD	B	INTACT	TAN	IMAGE	FITTING ROOM	Negative	1	1	0	0.02
207	1/30/18	FLOOR	WOOD	B	INTACT	TAN	IMAGE	OFFICE	Negative	1	1	0	0.02
208	1/30/18	WALL	DRYWALL	A	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
209	1/30/18	WALL	DRYWALL	B	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
210	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
211	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	IMAGE	OFFICE	Null	1	1	0.01	0.08
212	1/30/18	WALL	DRYWALL	D	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
213	1/30/18	DOOR	WOOD	A	INTACT	WHITE	IMAGE	OFFICE	Null	1	1	0	0.03
214	1/30/18	DOOR	WOOD	A	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
215	1/30/18	DOOR CASE	WOOD	A	INTACT	WHITE	IMAGE	OFFICE	Negative	1	1	0	0.02
216	1/30/18	CABINET	METAL	D	INTACT	GREY	IMAGE	OFFICE	Negative	1	1	0	0.02
217	1/30/18	WALL	DRYWALL	A	INTACT	WHITE	IMAGE	RESTROOM	Negative	1	1	0	0.02
218	1/30/18	WALL	DRYWALL	C	INTACT	WHITE	IMAGE	RESTROOM	Negative	1	1	0	0.02
219	1/30/18	DOOR	WOOD	B	INTACT	WHITE	IMAGE	RESTROOM	Negative	10	1	-0.46	1.37
220	1/30/18	DOOR CASE	METAL	B	INTACT	BROWN	IMAGE	RESTROOM	Negative	7.07	1	0.04	0.17
221	1/30/18	CEILING	DRYWALL	B	INTACT	WHITE	IMAGE	RESTROOM	Negative	1	1	0	0.02
222	1/30/18	FLOOR	WOOD	B	INTACT	TAN	IMAGE	RESTROOM	Negative	1	1	0	0.02
223	1/30/18	BASEBOARD	WOOD	B	INTACT	WHITE	IMAGE	RESTROOM	Negative	1	1	0	0.02
224	1/30/18	WALL	DRYWALL	B	INTACT	YELLOW	PAYLESS	MAIN	Negative	1	1	0	0.02
225	1/30/18	WALL	DRYWALL	C	INTACT	YELLOW	PAYLESS	MAIN	Negative	1	1	0	0.02
226	1/30/18	WALL	DRYWALL	D	INTACT	YELLOW	PAYLESS	MAIN	Negative	1	1	0	0.02
227	1/30/18	WALL	DRYWALL	A	INTACT	YELLOW	PAYLESS	MAIN	Negative	1	1	0	0.02
228	1/30/18	DOOR	METAL	A	INTACT	BLACK	PAYLESS	MAIN	Negative	1	1	0	0.02
229	1/30/18	WINDOW	METAL	A	INTACT	BLACK	PAYLESS	MAIN	Negative	1	1	0	0.02
230	1/30/18	COLUMN	DRYWALL	A	INTACT	YELLOW	PAYLESS	MAIN	Negative	1.23	1	0	0.02
231	1/30/18	COLUMN	DRYWALL	D	INTACT	BLACK	PAYLESS	MAIN	Negative	1	1	0	0.02
232	1/30/18	WALL	DRYWALL	A	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
233	1/30/18	WALL	DRYWALL	B	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1.01	1	0	0.02

234	1/30/18	WALL	DRYWALL	C	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
235	1/30/18	WALL	DRYWALL	D	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
236	1/30/18	DOOR	DRYWALL	D	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
237	1/30/18	DOOR	METAL	D	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
238	1/30/18	DOOR CASE	METAL	D	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
239	1/30/18	CEILING	DRYWALL	D	INTACT	YELLOW	PAYLESS	STORAGE	Negative	1	1	0	0.02
240	1/30/18	WALL	DRYWALL	A	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
241	1/30/18	WALL	DRYWALL	B	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
242	1/30/18	WALL	DRYWALL	C	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
243	1/30/18	WALL	DRYWALL	D	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
244	1/30/18	DOOR	METAL	A	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
245	1/30/18	DOOR CASE	METAL	A	INTACT	YELLOW	PAYLESS	OFFICE	Negative	1	1	0	0.02
246	1/30/18	DOOR CASE	METAL	A	INTACT	WHITE	PAYLESS	BATH	Negative	1	1	0	0.02
247	1/30/18	DOOR	METAL	A	INTACT	WHITE	PAYLESS	BATH	Negative	1	1	0	0.02
248	1/30/18	WALL	DRYWALL	A	INTACT	WHITE	PAYLESS	BATH	Negative	1	1	0	0.02
249	1/30/18	WALL	DRYWALL	B	INTACT	WHITE	PAYLESS	BATH	Negative	1	1	0	0.02
250	1/30/18	CEILING	DRYWALL	B	INTACT	WHITE	PAYLESS	BATH	Negative	1	1	0	0.02
251	1/30/18	REGISTER	METAL	B	INTACT	WHITE	PAYLESS	BATH	Negative	7.86	1	-0.08	1.05
252	1/30/18	CALIBRATE							Null	1.18	1	1.1	0.3
253	1/30/18	CALIBRATE							Negative	1.15	1	0.8	0.1
254	1/30/18	CALIBRATE							Negative	1	1	0	0.02
255	2/1/18											1.02	0
256	2/1/18	CALIBRATE							Positive	1.12	1	1.1	0.1
257	2/1/18	CALIBRATE							Negative	1.07	1	0.7	0.3
258	2/1/18	CALIBRATE							Negative	1	1	0	0.02
259	2/1/18	WALL	DRYWALL	A	INTACT	ORANGE	NEWSTAND	STORAGE/OFFICE	Negative	1	1	0	0.02
260	2/1/18	WALL	DRYWALL	C	INTACT	ORANGE	NEWSTAND	STORAGE/OFFICE	Negative	1.47	1	0.01	0.05
261	2/1/18	DOOR	WOOD	C	INTACT	ORANGE	NEWSTAND	STORAGE/OFFICE	Negative	4.29	1	-0.78	1.57
262	2/1/18	DOOR CASE	WOOD	C	INTACT	ORANGE	NEWSTAND	STORAGE/OFFICE	Negative	1	1	0	0.02

263	2/1/18	SHELF	WOOD	C	INTACT	ORANGE	NEWSTAND	STORAGE/OFFICE	Negative	1	1	0	0.02
264	2/1/18	WALL	DRYWALL	B	INTACT	WHITE	NEWSTAND	BATH	Negative	1	1	0	0.02
265	2/1/18	WALL	DRYWALL	D	INTACT	WHITE	NEWSTAND	BATH	Negative	1	1	0	0.02
266	2/1/18	DOOR CASE	DRYWALL	D	INTACT	WHITE	NEWSTAND	BATH	Negative	1	1	0	0.02
267	2/1/18	SHELF	DRYWALL	D	INTACT	WHITE	NEWSTAND	BATH	Negative	1.26	1	0	0.03
268	2/1/18	CEILING	DRYWALL	D	INTACT	WHITE	NEWSTAND	BATH	Null	1	1	0	0.02
269	2/1/18	CEILING	DRYWALL	D	INTACT	WHITE	NEWSTAND	BATH	Negative	1	1	0	0.02
270	2/1/18	CABINET	DRYWALL	C	INTACT	WHITE	NEWSTAND	BATH	Negative	1	1	0	0.02
271	2/1/18	WALL	DRYWALL	B	INTACT	ORANGE	NEWSTAND	MAIN	Negative	2.46	1	0.01	0.05
272	2/1/18	WALL	DRYWALL	C	INTACT	ORANGE	NEWSTAND	MAIN	Negative	1	1	0	0.02
273	2/1/18	WALL	DRYWALL	D	INTACT	ORANGE	NEWSTAND	MAIN	Negative	1	1	0	0.02
274	2/1/18	DOOR	METAL	A	INTACT	BLACK	NEWSTAND	MAIN	Negative	1	1	0	0.02
275	2/1/18	WINDOW	METAL	D	INTACT	BLACK	NEWSTAND	MAIN	Negative	1	1	0	0.02
276	2/1/18	WALL	DRYWALL	A	INTACT	ORANGE	NEWSTAND	MAIN	Negative	4.83	1	0.01	0.07
277	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	DINING 1	Negative	2.08	1	0.01	0.04
278	2/1/18	WALL	DRYWALL	B	INTACT	BEIGE	ANDRES	DINING 1	Negative	1	1	0	0.02
279	2/1/18	WALL	DRYWALL	C	INTACT	BEIGE	ANDRES	DINING 1	Negative	1	1	0	0.02
280	2/1/18	WALL	DRYWALL	D	INTACT	BEIGE	ANDRES	DINING 1	Negative	1	1	0	0.02
281	2/1/18	CHAIR RAIL	WOOD	A	INTACT	BROWN	ANDRES	DINING 1	Null	1	1	0	0.04
282	2/1/18	CHAIR RAIL	WOOD	A	INTACT	BROWN	ANDRES	DINING 1	Negative	1	1	0	0.02

283	*2/1/18*	*FLOOR*	*CERAMIC*	*A*	*INTACT*	*WHITE*	*ANDRES*	*DINING 1*	*Negative*	*1.42*	*1*	*0.4*	*0.4*
284	2/1/18	FLOOR	CERAMIC	A	INTACT	TAN	ANDRES	DINING 1	Negative	2.16	1	0.07	0.14
285	2/1/18	COLUMN	WOOD	B	INTACT	WHITE	ANDRES	DINING 1	Negative	1	1	0	0.02
286	2/1/18	BASEBOARD	CERAMIC	B	INTACT	BEIGE	ANDRES	DINING 1	Negative	1.36	1	0	0.02
287	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	DINING 2	Negative	1	1	0	0.02
288	2/1/18	WALL	DRYWALL	B	INTACT	RED	ANDRES	DINING 2	Negative	1	1	0	0.02
289	2/1/18	WALL	DRYWALL	C	INTACT	BEIGE	ANDRES	DINING 2	Negative	1	1	0.04	0.07
290	2/1/18	WALL	DRYWALL	D	INTACT	WHITE	ANDRES	DINING 2	Negative	1	1	0	0.02
291	2/1/18	TRIM	DRYWALL	C	INTACT	BEIGE	ANDRES	DINING 2	Negative	1	1	0	0.02
292	2/1/18	FLOOR	CERAMIC	C	INTACT	TAN	ANDRES	DINING 2	Negative	1	1	0	0.02
293	2/1/18	FLOOR	CERAMIC	C	INTACT	TAN	ANDRES	DINING 3	Negative	2.52	1	0.01	0.02
294	2/1/18	FLOOR	CERAMIC	C	INTACT	RED	ANDRES	DINING 3	Negative	1	1	0	0.02
295	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	DINING 3	Negative	1.05	1	0.05	0.08
296	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	DINING 3	Negative	1	1	0.01	0.02
297	2/1/18	WALL	DRYWALL	C	INTACT	BEIGE	ANDRES	DINING 3	Negative	2.84	1	0.01	0.02
298	2/1/18	WALL	DRYWALL	D	INTACT	BEIGE	ANDRES	DINING 3	Negative	1	1	0	0.02
299	2/1/18	TRIM	WOOD	A	INTACT	BEIGE	ANDRES	DINING 3	Negative	1	1	0	0.02
300	2/1/18	WALL	CERAMIC	C	INTACT	BEIGE	ANDRES	DINING 3	Negative	1	1	0.01	0.06
301	2/1/18	WALL	CERAMIC	C	INTACT	GREEN	ANDRES	DINING 3	Negative	7.11	1	0.06	0.18
302	2/1/18	WRT IRON	METAL	C	INTACT	BLACK	ANDRES	DINING 3	Negative	1	1	0.01	0.03
303	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	SERVICE COUNTER	Negative	1	1	0	0.02
304	2/1/18	WALL	DRYWALL	B	INTACT	BEIGE	ANDRES	SERVICE COUNTER	Negative	1.93	1	0.06	0.08
305	2/1/18	CEILING	DRYWALL	B	INTACT	BEIGE	ANDRES	SERVICE COUNTER	Negative	1	1	0	0.02
306	2/1/18	CABINET	METAL	B	INTACT	BEIGE	ANDRES	SERVICE COUNTER	Negative	10	1	-0.27	0.91
307	2/1/18	CABINET	WOOD	C	INTACT	BEIGE	ANDRES	SERVICE COUNTER	Negative	1	1	0	0.02
308	2/1/18	WALL	DRYWALL	B	INTACT	BEIGE	ANDRES	HALL	Negative	1	1	0	0.02
309	2/1/18	WALL	DRYWALL	D	INTACT	BEIGE	ANDRES	HALL	Negative	1	1	0	0.02

310	2/1/18	FLOOR	CERAMIC	D	INTACT	BROWN	ANDRES	HALL	Negative	2.03	1	0.01	0.03
311	2/1/18	BASEBOARD	CERAMIC	D	INTACT	BROWN	ANDRES	HALL	Negative	1.38	1	0	0.02
312	2/1/18	WALL	CERAMIC	B	INTACT	GREY	ANDRES	HALL	Negative	2.22	1	0.02	0.08
313	2/1/18	WALL	DRYWALL	A	INTACT	BEIGE	ANDRES	HALL	Negative	1	1	0	0.02
314	2/1/18	FLOOR	CONCRETE	A	INTACT	RED	ANDRES	DISHWASH AREA	Negative	1	1	0	0.02
315	2/1/18	WALL	DRYWALL	A	POOR	BEIGE	ANDRES	DISHWASH AREA	Negative	1	1	0	0.02
316	2/1/18	WALL	DRYWALL	A	POOR	BEIGE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
317	2/1/18	WALL	DRYWALL	B	POOR	BEIGE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
318	2/1/18	WALL	DRYWALL	C	POOR	BEIGE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
319	2/1/18	CEILING	DRYWALL	C	POOR	BEIGE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
320	2/1/18	FLOOR	CERAMIC	C	INTACT	RED	ANDRES	FOOD PREP AREA 1	Negative	1.46	1	0.01	0.03
321	2/1/18	FLOOR	CONCRETE	C	INTACT	RED	ANDRES	FOOD PREP AREA 1	Negative	1	1	0.01	0.03
322	2/1/18	DOOR	METAL	B	INTACT	WHITE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
323	2/1/18	DOOR CASE	METAL	B	INTACT	WHITE	ANDRES	FOOD PREP AREA 1	Negative	8.96	1	-0.11	0.95
324	2/1/18	DOOR CASE	WOOD	D	INTACT	WHITE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
325	2/1/18	DOOR	WOOD	D	INTACT	BEIGE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
326	2/1/18	WALL	DRYWALL	A	INTACT	WHITE	ANDRES	FOOD PREP AREA 1	Negative	1	1	0	0.02
327	2/1/18	WALL	DRYWALL	B	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	5.64	1	0.03	0.07

328	2/1/18	WALL	DRYWALL	D	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	2.53	1	0.01	0.05
329	2/1/18	DOOR CASE	METAL	D	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	1	1	0	0.02
330	*2/1/18*	*DOOR CASE*	*METAL*	*B*	*INTACT*	*WHITE*	*ANDRES*	*FOOD PREP AREA 2*	*Negative*	*4.15*	*1*	*0.4*	*0.5*
331	2/1/18	DOOR	METAL	B	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	1	1	0	0.02
332	2/1/18	SHELF	WOOD	D	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	1	1	0	0.02
333	2/1/18	WALL	DRYWALL	C	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	1	1	0	0.02
334	2/1/18	WALL	CONCRETE	C	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	7.38	1	0.07	0.1
335	2/1/18	CABINET	WOOD	B	INTACT	WHITE	ANDRES	FOOD PREP AREA 2	Negative	1	1	0	0.02
336	2/1/18	WALL	WOOD	A	INTACT	WHITE	ANDRES	STORAGE ROOM	Negative	4.69	1	0.04	0.16
337	2/1/18	WALL	WOOD	B	INTACT	WHITE	ANDRES	STORAGE ROOM	Negative	1	1	0	0.02
338	2/1/18	WALL	WOOD	C	INTACT	WHITE	ANDRES	STORAGE ROOM	Negative	1	1	0	0.02
339	2/1/18	WALL	WOOD	D	INTACT	WHITE	ANDRES	STORAGE ROOM	Negative	1	1	0	0.02
340	2/1/18	COLUMN	METAL	D	INTACT	RED	ANDRES	STORAGE ROOM	Negative	1	1	0.01	0.03
341	*2/1/18*	*DOOR CASE*	*METAL*	*A*	*POOR*	*GREY*	*ANDRES*	*STORAGE ROOM*	*Negative*	*3.38*	*1*	*0.3*	*0.39*
342	2/1/18	DOOR	METAL	D	POOR	GREY	ANDRES	STORAGE ROOM	Negative	1	1	0	0.02
343	2/1/18	SHELF	METAL	D	POOR	GREY	ANDRES	STORAGE ROOM	Negative	1	1	0	0.02
344	2/1/18	WALL	DRYWALL	A	POOR	WHITE	ANDRES	FOOD PREP AREA 3	Negative	1	1	0	0.02

345	2/1/18	WALL	DRYWALL	B	POOR	WHITE	ANDRES	FOOD PREP AREA 3	Negative	1	1	0	0.02
346	2/1/18	WALL	DRYWALL	C	POOR	WHITE	ANDRES	FOOD PREP AREA 3	Null	1	1	0	0.03
347	2/1/18	WALL	DRYWALL	C	POOR	WHITE	ANDRES	FOOD PREP AREA 3	Negative	1	1	0	0.02
348	2/1/18	WALL	DRYWALL	A	POOR	WHITE	ANDRES	FOOD PREP AREA 3	Negative	1	1	0	0.02
349	2/1/18	LADDER	WOOD	A	POOR	BLUE	ANDRES	FOOD PREP AREA 3	Negative	1.38	1	0.04	0.08
350	2/1/18	CALIBRATE							Positive	1.02	1	1.6	0.6
351	2/1/18	CALIBRATE							Positive	1.15	1	1.6	0.6
352	2/1/18	CALIBRATE							Negative	1.04	1	0.7	0.3
353	2/1/18	CALIBRATE							Negative	1	1	0	0.02
354	2/1/18	CALIBRATE							Positive	1.07	1	1.3	0.3
355	2/1/18	CALIBRATE							Negative	1	1	0.7	0.3
356	2/1/18	WALL	WOOD	B	POOR	BEIGE	WIGS	MAIN	Negative	1	1	0	0.02
357	2/1/18	WALL	WOOD	D	POOR	BEIGE	WIGS	MAIN	Negative	1	1	0	0.02
358	2/1/18	CABINET	WOOD	B	POOR	BEIGE	WIGS	MAIN	Negative	1	1	0	0.02
359	2/1/18	FLOOR	WOOD	B	INTACT	BEIGE	WIGS	MAIN	Negative	1	1	0	0.02
360	2/1/18	FLOOR	WOOD	B	INTACT	BEIGE	WIGS	MAIN	Negative	1	1	0	0.02
361	*2/1/18*	*FLOOR*	*CERAMIC*	*A*	*INTACT*	*TAN*	*WIGS*	*MAIN*	*Negative*	*1.27*	*1*	*0.3*	*0.23*
362	2/1/18	DOOR	WOOD	C	INTACT	WHITE	WIGS	MAIN	Negative	10	1	-0.63	1.55
363	2/1/18	DOOR CASE	WOOD	C	INTACT	WHITE	WIGS	MAIN	Negative	1	1	0	0.02
364	2/1/18	CABINET	WOOD	D	INTACT	BEIGE	WIGS	MAIN	Negative	1.9	1	0.01	0.06
365	2/1/18	WALL	WOOD	A	INTACT	BEIGE	WIGS	STORAGE	Negative	1	1	0	0.02
366	2/1/18	WALL	DRYWALL	B	INTACT	WHITE	WIGS	STORAGE	Negative	3.1	1	0.01	0.06
367	2/1/18	WALL	DRYWALL	C	INTACT	WHITE	WIGS	STORAGE	Negative	1	1	0	0.02
368	2/1/18	DOOR	WOOD	C	INTACT	WHITE	WIGS	STORAGE	Null	1.1	1	0	0.03
369	2/1/18	DOOR	WOOD	C	INTACT	WHITE	WIGS	STORAGE	Negative	1	1	0	0.02
370	2/1/18	DOOR CASE	WOOD	C	INTACT	WHITE	WIGS	STORAGE	Negative	1.81	1	0.01	0.05
371	2/1/18	FLOOR	WOOD	C	INTACT	BEIGE	WIGS	STORAGE	Negative	1	1	0	0.02
372	2/1/18	WALL	DRYWALL	A	INTACT	GREEN	WIGS	BATHROOM	Negative	1	1	0	0.02

373	2/1/18	WALL	DRYWALL	C	INTACT	GREEN	WIGS	BATHROOM	Negative	4.48	1	0.03	0.05
374	2/1/18	DOOR	WOOD	A	INTACT	WHITE	WIGS	BATHROOM	Negative	1	1	0	0.02
375	2/1/18	DOOR CASE	METAL	A	INTACT	BROWN	WIGS	BATHROOM	Negative	1	1	0.01	0.03
376	2/1/18	CEILING	DRYWALL	A	INTACT	WHITE	WIGS	BATHROOM	Negative	1	1	0	0.02
377	2/1/18	CALIBRATE							Positive	1.07	1	1	0.1
378	2/1/18	CALIBRATE							Negative	1.1	1	0.7	0.3
379	2/1/18	CALIBRATE							Negative	1	1	0	0.02
380	2/2/18											1.06	0
381	2/2/18	CALIBRATE							Positive	1.13	1	1.1	0.1
382	2/2/18	CALIBRATE							Negative	1.01	1	0.7	0.3
383	2/2/18	CALIBRATE							Negative	1	1	0	0.02
384	2/2/18	WALL	BRICK	D	INTACT	BEIGE	ROOF	OUTSIDE	Negative	3.65	1	0.02	0.04
385	2/2/18	WALL	BRICK	D	INTACT	BEIGE	ROOF	OUTSIDE	Negative	1.79	1	0.01	0.02
386	2/2/18	WALL	BRICK	A	INTACT	BEIGE	ROOF	OUTSIDE	Negative	1	1	0	0.02
387	2/2/18	WALL	BRICK	A	INTACT	BEIGE	ROOF	OUTSIDE	Negative	1	1	0	0.02
388	2/2/18	WALL	BRICK	D	INTACT	BEIGE	ROOF	OUTSIDE	Negative	1.92	1	0.01	0.02
389	2/2/18	VENT	METAL	D	INTACT	BEIGE	ROOF	OUTSIDE	Negative	5.61	1	0.08	0.25
390	2/2/18	PIPE	METAL	D	POOR	WHITE	ROOF	OUTSIDE	Negative	1	1	0	0.02
391	2/2/18	PIPE	METAL	D	POOR	BEIGE	ROOF	OUTSIDE	Negative	1.37	1	0	0.03
392	2/2/18	HVAC	METAL	D	POOR	GREY	ROOF	OUTSIDE	Negative	1	1	0	0.02
393	2/2/18	HVAC	METAL	D	POOR	GREEN	ROOF	OUTSIDE	Negative	1	1	0	0.02
394	2/2/18	HVAC	METAL	D	POOR	TAN	ROOF	OUTSIDE	Negative	1	1	0	0.02
395	2/2/18	HVAC	METAL	D	POOR	TAN	ROOF	OUTSIDE	Negative	2.22	1	0.02	0.09
396	2/2/18	VENT FLASHNG	METAL	D	POOR	TAN	ROOF	OUTSIDE	Negative	1	1	0	0.02
397	2/2/18	VENT FLASHNG	METAL	D	POOR	TAN	ROOF	OUTSIDE	Negative	1	1	0	0.02
398	2/2/18	WALL	STUCCO	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	2.1	1	0	0.02
399	2/2/18	WALL	STUCCO	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.95	1	0.01	0.02
400	**2/2/18**	**WALL**	**CINDER**	**A**	**FAIR**	**BEIGE**	**EXTERIOR**	**OUTSIDE**	**Positive**	**1**	**1**	**1.6**	**0.6**
401	2/2/18	WALL	CINDER	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Null	1.04	1	0	0.02
402	**2/2/18**	**WALL**	**CINDER**	**A**	**FAIR**	**BEIGE**	**EXTERIOR**	**OUTSIDE**	**Positive**	**1.09**	**1**	**1.3**	**0.2**
403	2/2/18	DOOR	METAL	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.27	1	0	0.02
404	2/2/18	DOOR CASE	METAL	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02

405	2/2/18	DOOR	METAL	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
406	2/2/18	WINDOW	METAL	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
407	2/2/18	DOOR	METAL	A	FAIR	BLACK	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
408	2/2/18	WALL STONE	CONCRETE	A	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.08	1	0	0.02
409	2/2/18	WALL STONE	CONCRETE	B	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.21	1	0	0.02
410	2/2/18	WALL STONE	CONCRETE	B	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
411	2/2/18	WALL	CERAMIC	B	FAIR	TAN	EXTERIOR	OUTSIDE	Negative	3.29	1	0.02	0.03
412	2/2/18	WALL	CERAMIC	B	FAIR	TAN	EXTERIOR	OUTSIDE	Negative	5.54	1	0.03	0.05
413	2/2/18	WINDOW	METAL	B	FAIR	BLACK	EXTERIOR	OUTSIDE	Negative	1	1	0.01	0.02
414	2/2/18	WALL	STUCCO	B	FAIR	BLACK	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
415	2/2/18	WALL	BRICK	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
416	2/2/18	WALL	BRICK	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1.84	1	0.01	0.02
417	2/2/18	DOOR	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
418	2/2/18	DOOR CASE	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	3.66	1	0.01	0.07
419	2/2/18	POLE	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	5.88	1	0.12	0.34
420	2/2/18	POLE GRD	METAL	C	FAIR	YELLOW	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
421	2/2/18	SCREEN	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	2	1	0.06	0.12
422	2/2/18	DOOR	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
423	2/2/18	DOOR CASE	METAL	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	2.4	1	0.01	0.05
424	2/2/18	FENCE	METAL	C	FAIR	BLACK	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
425	2/2/18	WALL	BRICK	C	FAIR	WHITE	EXTERIOR	OUTSIDE	Null	1	1	0	0.03
426	2/2/18	WALL	BRICK	C	FAIR	WHITE	EXTERIOR	OUTSIDE	Negative	2.27	1	0.01	0.02
427	2/2/18	POLE GRD	METAL	C	PEELING	YELLOW	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
428	2/2/18	WALL	STUCCO	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
429	2/2/18	DWN SPT	METAL	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	3.74	1	0.03	0.13
430	2/2/18	CABINET	METAL	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
431	2/2/18	PIPES	METAL	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
432	2/2/18	WALL	BRICK	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	2.03	1	0.01	0.02
433	2/2/18	LADDER	METAL	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	4.29	1	0.02	0.11
434	*2/2/18*	*GATE*	*METAL*	*C*	*FAIR*	*BLUE*	*EXTERIOR*	*OUTSIDE*	*Negative*	*5.6*	*1*	*0.15*	*0.35*

435	2/2/18	WALL	STUCCO	C	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	2.14	1	0	0.02
436	*2/2/18*	*DOOR*	*WOOD*	*C*	*FAIR*	*BEIGE*	*EXTERIOR*	*OUTSIDE*	*Negative*	*4.44*	*1*	*0.12*	*0.16*
437	*2/2/18*	*DOOR CASE*	*METAL*	*C*	*FAIR*	*BEIGE*	*EXTERIOR*	*OUTSIDE*	*Negative*	*3.76*	*1*	*0.4*	*0.5*
438	2/2/18	FLOOR	CONCRETE	C	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1.68	1	0	0.02
439	2/2/18	WALL	CERAMIC	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
440	2/2/18	WALL	STUCCO	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.95	1	0	0.02
441	2/2/18	WINDOW	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.09	1	0	0.02
442	2/2/18	DOOR	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
443	2/2/18	DOOR	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	5.22	1	0.08	0.26
444	2/2/18	DOOR	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.96	1	0.02	0.07
445	*2/2/18*	*DOOR CASE*	*METAL*	*D*	*FAIR*	*BEIGE*	*EXTERIOR*	*OUTSIDE*	*Negative*	*4.33*	*1*	*0.3*	*0.45*
446	2/2/18	GATE	METAL	D	CRACKED	BLUE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
447	2/2/18	GATE	METAL	D	CRACKED	BLUE	EXTERIOR	OUTSIDE	Negative	2.82	1	0.02	0.08
448	2/2/18	WINDOW	METAL	A	FAIR	WHITE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
449	2/2/18	CORRIDOR WALL	WOOD	A	FAIR	GREY	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
450	2/2/18	CORRIDOR WALL	CONCRETE	A	FAIR	WHITE	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
451	2/2/18	AWNING FRAME	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Null	1.22	1	0.03	0.02
452	2/2/18	AWNING FRAME	METAL	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	1.08	1	0.01	0.02
453	2/2/18	AWNING	METAL	D	FAIR	COPPER	EXTERIOR	OUTSIDE	Negative	1	1	0	0.02
454	2/2/18	CEILING	STUCCO	D	FAIR	BEIGE	EXTERIOR	OUTSIDE	Negative	4.16	1	0.19	0.09
455	2/2/18	CALIBRATE							Positive	1.16	1	1.1	0.1
456	2/2/18	CALIBRATE							Negative	1	1	0.7	0.3
457	2/2/18	CALIBRATE							Negative	1	1	0	0.02

Additional painted/coated surfaces not listed in this report may be discovered and encountered during the course of the project and must be presumed to be lead-based until sample collection and subsequent analysis prove otherwise.

D. Regulatory Requirements

Asbestos: Current applicable Federal, State and Local statutes specifies work practice requirements for demolition and/or renovation activities, and the associated disturbance of asbestos-containing material, as well as the storage and disposal of asbestos-containing waste material. Proper notification, removal techniques for asbestos-containing material, clean-up procedures and waste storage and disposal requirements are mandated in connection with renovation or demolition activities. This survey was performed in compliance with requirements of the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR 763, Cal/OSHA Asbestos Construction Standard Title 8 CCR 1529, The Bay Area Air Quality Management District (BAAQMD) Rule 11-02, as well as the National Emissions Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 61 Subpart M.

It is Federal, State and Local agency requirements to maintain proof of compliance (asbestos handling records) and disposal of asbestos (waste chain of custody) by owner. Asbestos responsibility and ownership are forever. An EPA/State of California certified and approved Asbestos Abatement Contractor and Hazardous Waste Hauler must perform the asbestos abatement and decontamination, and transport (haulers) to a State approved landfill

Lead-Based Paint (LBP)*:* paint or other surface coating that contains lead equal to or in excess of 1.0 mg/cm^2 lead per surface area (0.7 mg/cm^2 in Los Angeles County), 0.5% by weight, or 5,000 ppm. LBP removal and disposal must be performed in accordance with CDPH regulations in residential or public buildings and the US Department of Housing and Urban Development (HUD) and 2010 Toxic Substances Control Act (TSCA) Renovation, Repair and Painting Rule (RRP) in pre-1978 target housing and child-occupied facilities. DOSH or Cal/OSHA requirements must also be followed where employees may be occupationally exposed to lead.

Lead-Containing Paint (LCP): paint or other surface coating containing less than 1.0 mg/cm^2 lead per surface area (0.7 mg/cm^2 in Los Angeles County), 0.5% by weight, or 5,000 ppm. LCP removal and disposal must be performed in accordance with DOSH or Cal/OSHA regulations and can be handled by a licensed general contractor who has prepared a DOSH or Cal/OSHA lead compliance plan/program for the protection of its workers in accordance with Title 8 Section 1532.1 of the California Code of Regulations (CCRs). Waste characterization to determine proper disposal is governed by Title 22 of CCRs.

E. Conclusions and Recommendations

Based on the survey results, it is the professional opinion of Evista that some of the materials surveyed and sampled do contain asbestos containing materials (ACM), which should be handled in accordance with applicable local and state regulations (which include SCAQMD Rule 1403 and Cal/OSHA Asbestos Construction Standard Title 8 CCR 1529) Accordingly, Evista recommends that a Cal-DOSH registered and State licensed asbestos contractor perform the removal of the asbestos containing materials if they will be impacted during demolition or renovation In addition, lead-based paint (LBP) was detected on surfaces tested and should be handled in accordance with CDPH regulations in residential or public buildings and the US Department of Housing and Urban Development (HUD) and 2010 Toxic Substances Control Act (TSCA) Renovation, Repair and Painting Rule (RRP) in pre-1978 target housing and child-occupied facilities. DOSH or Cal/OSHA requirements must also be followed where employees may be occupationally exposed to lead. Due to the survey limitations, Evista recommends that a comprehensive, pre-demolition survey of the Kmart Store for ACM & LBP to determine their presence and the quantities for demolition and proper disposal.

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F. Inspection Limitation

This limited survey was conducted in conformance with EPA Guidelines. Evista utilizes established practices and techniques in accordance with regulatory standards while performing this survey. Evista cannot be responsible for changing conditions that may alter relative exposure risk or for future changes in accepted methodology. Evista does not guarantee either expressed or implied that all asbestos materials were sampled during this survey. Evista was retained only to perform the limited asbestos and lead survey on materials requested by the Client and the findings shall only be applicable to the sample taken, the sample locations and the time that the sample(s) was/were collected. The Kmart store limitations were due to time limits allowed for store access and limits of damages made by sampling. Evista shall not be held responsible for deficiencies, commissions, and all other particulars related to the limited sampling conducted at the Kmart Store at the request of the Client. Evista subcontracted with LA Testing to perform the asbestos analysis. Every reasonable effort has been made to assure correctness. If an Asbestos/Lead Abatement Contractor or other Demolition/Construction Contractor is employed, such contractor should bring any discrepancies found in this report as it relates to current site conditions or newly discovered site conditions to the immediate attention of Evista. This report should not be used solely for asbestos/lead abatement bidding purposes. Contractor bidding for abatement related to the findings of this report should field verify material quantities and locations during the bidding process.

If you have any questions, please feel free to contact me at (800) 214-9959.

Sincerely,



Chris Blake
Senior Project Manager/Consultant
CAC No. 01-3027
LRC-I/A, PM, PD No. 6283

Enclosed: PLM Bulk Asbestos Report with COC's
Drawing
Certifications

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520 Mission Street South Pasadena, CA 91030

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order:	321802357
Customer ID:	32EVIS62
Customer PO:	
Project ID:	

Attention:	EVISTA Env. Health Systems	**Phone:**	(888) 775-7738
	4030 Birch St	**Fax:**	
	Suite 105	**Received Date:**	01/29/2018 4:30 PM
	Newport Beach, CA 92660	**Analysis Date:**	02/05/2018
		Collected Date:	01/29/2018
Project:	18-4988CB 3rd & Fairfax		

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**
01-01-VFT *321802357-0001*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-01-Mastic *321802357-0001A*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-01-Cementitious *321802357-0001B*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-02-Floor Tile *321802357-0002*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-02-Mastic *321802357-0002A*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-02-Cementitious *321802357-0002B*	Lil ceasars- floor dining room - 12" Black VFT w/ mastic	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-03-Vinyl Floor Tile *321802357-0003*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-03-Mastic *321802357-0003A*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-03-Leveling Compound *321802357-0003B*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-04-Vinyl Floor Tile *321802357-0004*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-04-Mastic *321802357-0004A*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-04-Leveling Compound *321802357-0004B*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-05-Vinyl Floor Tile *321802357-0005*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-05-Mastic *321802357-0005A*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-05-Leveling Compound *321802357-0005B*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/09/2018 14:34:15 Replaces initial report from: 02/05/2018 16:43:54 Reason Code: DataEntry-Other (see report comment)

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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**
02-06-Vinyl Floor Tile *321802357-0006*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-06-Mastic *321802357-0006A*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-06-Leveling Compound *321802357-0006B*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-07-Vinyl Floor Tile *321802357-0007*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-07-Mastic *321802357-0007A*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-07-Leveling Compound *321802357-0007B*	Lil ceasars- floor dining room - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-08-Floor Tile *321802357-0008*	Lil ceasars- floor dining room - 12" Green blue VFT w/ mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-08-Mastic *321802357-0008A*	Lil ceasars- floor dining room - 12" Green blue VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-09-Floor Tile *321802357-0009*	Lil ceasars- floor dining room - 12" Green blue VFT w/ mastic	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-09-Mastic *321802357-0009A*	Lil ceasars- floor dining room - 12" Green blue VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-10-Floor Tile *321802357-0010*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-10-Mastic *321802357-0010A*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-11-Floor Tile *321802357-0011*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-11-Mastic *321802357-0011A*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-12-Floor Tile *321802357-0012*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-12-Mastic *321802357-0012A*	Lil ceasars- floor dining room - 12" Beige VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-13-Base Cove *321802357-0013*	Lil ceasars- wall (E) dining room - Base cove (block)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing Order:	321802357
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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**
05-13-Mastic *321802357-0013A*	Lil ceasars- wall (E) dining room - Base cove (block)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-14-Cove Base *321802357-0014*	Lil ceasars- wall (E) dining room - Base cove (block)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-14-Mastic *321802357-0014A*	Lil ceasars- wall (E) dining room - Base cove (block)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-15-Drywall *321802357-0015*	Lil ceasars- wall (E) dining room - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
06-15-Joint Compound *321802357-0015A*	Lil ceasars- wall (E) dining room - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-16-Drywall *321802357-0016*	Lil ceasars- wall (E) dining room - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
06-16-Joint Compound *321802357-0016A*	Lil ceasars- wall (E) dining room - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-17-Drywall *321802357-0017*	Lil ceasars- wall (E) dining room - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
06-17-Joint Compound *321802357-0017A*	Lil ceasars- wall (E) dining room - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-18-Drywall *321802357-0018*	Lil ceasars- wall (E) dining room - Wallboard	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-18-Joint Compound *321802357-0018A*	Lil ceasars- wall (E) dining room - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-19-Drywall *321802357-0019*	Lil ceasars- wall(W) dining room - Wallboard	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
06-19-Joint Compound *321802357-0019A*	Lil ceasars- wall(W) dining room - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07-20 *321802357-0020*	Lil ceasars- ceiling, food prep area - 2' by 4' ceiling tiles (drop ceiling)	Gray/White Non-Fibrous Homogeneous	50% Cellulose 15% Min. Wool	15r% Perlite 35% Non-fibrous (Other)	None Detected
07-21 *321802357-0021*	Lil ceasars- ceiling, food prep area - 2' by 4' ceiling tiles (drop ceiling)	Gray/White Fibrous Homogeneous	50% Cellulose 15% Min. Wool	15% Perlite 20% Non-fibrous (Other)	None Detected
01-22 *321802357-0022*	Lil ceasars- ceiling, food prep area - 2' by 4' ceiling tiles (drop ceiling)	Gray/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected

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Analyst(s)

Guillermo Hernandez (34)

Humberto Espinoza (14)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

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LA Testing Order: 321802463
Customer ID: 32EVIS62
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Attention: EVISTA Env. Health Systems
4030 Birch St
Suite 105
Newport Beach, CA 92660

Project: 18-4988CB, 3rd & Fairfax

Phone: (888) 775-7738
Fax:
Received Date: 01/29/2018 4:30 PM
Analysis Date: 02/05/2018
Collected Date: 01/29/2018

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**
01-01-VFT *321802463-0001*	Lower level- floor NE corner - 12" White VTF w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-01-Mastic *321802463-0001A*	Lower level- floor NE corner - 12" White VTF w/ mastic	Black/Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
01-02-VFT *321802463-0002*	Lower level- floor W stockroom - 12" White VTF w/ mastic	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
01-02-Mastic *321802463-0002A*	Lower level- floor W stockroom - 12" White VTF w/ mastic	Black Non-Fibrous Homogeneous	2% Cellulose	88% Non-fibrous (Other)	10% Chrysotile
01-03 *321802463-0003*	Lower level- floor E stockroom - 12" White VTF w/ mastic				Positive Stop (Not Analyzed)
01-04 *321802463-0004*	Lower level- floor near escalator - 12" White VTF w/ mastic				Positive Stop (Not Analyzed)
02-05-Cove Base *321802463-0005*	Lower level wall- (N) - Base cove (block)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-05-Mastic *321802463-0005A*	Lower level wall- (N) - Base cove (block)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-06-Cove Base *321802463-0006*	Lower level wall- (W) - Base cove (block)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-06-Mastic *321802463-0006A*	Lower level wall- (W) - Base cove (block)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-07-Base Cove *321802463-0007*	Lower level wall- (N) - Base cove (block)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-07-Mastic *321802463-0007A*	Lower level wall- (N) - Base cove (block)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-08-Linoleum *321802463-0008*	Lower level floor N corner - Brown linoleum w/ mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-08-Mastic *321802463-0008A*	Lower level floor N corner - Brown linoleum w/ mastic	Yellow/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-08-Flooring Debris *321802463-0008B*	Lower level floor N corner - Brown linoleum w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-09-Linoleum *321802463-0009*	Lower level floor N corner - Brown linoleum w/ mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/09/2018 14:22:51 Replaces initial report from: 02/05/2018 17:52:08 Reason Code: Data Entry-Samples Removed

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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**
03-09-Mastic *321802463-0009A*	Lower level floor N corner - Brown linoleum w/ mastic	Yellow/Clear Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
03-09-Flooring Debris *321802463-0009B*	Lower level floor N corner - Brown linoleum w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-10-Linoleum *321802463-0010*	Lower level floor N corner - Brown linoleum w/ mastic	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-10-Mastic *321802463-0010A*	Lower level floor N corner - Brown linoleum w/ mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-11-Wallboard *321802463-0011*	Lower level wall N corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
04-11-Joint Compound *321802463-0011A*	Lower level wall N corner - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-12-Wallboard *321802463-0012*	Lower level wall NE corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
04-12-Joint Compound *321802463-0012A*	Lower level wall NE corner - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-13-Wallpaper *321802463-0013*	Lower level wall E corner - Wallboard	Brown/White Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
04-13-Joint Compound *321802463-0013A*	Lower level wall E corner - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-14 *321802463-0014*	Lower level wall W stockroom - Wallboard	Tan/White Fibrous Homogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
05-15-Finish Coat *321802463-0015*	Lower level- ceiling W stockroom - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-15-Base Coat *321802463-0015A*	Lower level- ceiling W stockroom - Plaster	Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-15-Drywall *321802463-0015B*	Lower level- ceiling W stockroom - Plaster	Beige Non-Fibrous Homogeneous	2% Cellulose 5% Glass	93% Non-fibrous (Other)	None Detected
05-16-Finish Coat *321802463-0016*	Lower level- ceiling W stockroom - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-16-Base Coat *321802463-0016A*	Lower level- ceiling W stockroom - Plaster	Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-16-Drywall *321802463-0016B*	Lower level- ceiling W stockroom - Plaster	Brown/White Fibrous Heterogeneous	10% Cellulose 5% Glass	85% Non-fibrous (Other)	None Detected
05-17-Finish Coat *321802463-0017*	Lower level wall S stockroom - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-17-Base Coat *321802463-0017A*	Lower level wall S stockroom - Plaster	Beige Non-Fibrous Homogeneous		10% Mica 90% 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**
05-17-Drywall *321802463-0017B*	Lower level wall S stockroom - Plaster	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
05-18-Finish Coat *321802463-0018*	Lower level wall S stockroom - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-18-Base Coat *321802463-0018A*	Lower level wall S stockroom - Plaster	Tan Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-18-Drywall *321802463-0018B*	Lower level wall S stockroom - Plaster	Tan/White Fibrous Homogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
06-19-VFT *321802463-0019*	Lower level- floor E stockroom - 12" Grey VFT w/ mastic	Beige Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
06-19-Mastic *321802463-0019A*	Lower level- floor E stockroom - 12" Grey VFT w/ mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
06-20 *321802463-0020*	Lower level- floor E stockroom - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
06-21 *321802463-0021*	Lower level- floor E stockroom - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
07-22 *321802463-0022*	Lower level- S stockroom - Firedoor insulation	Beige Fibrous Homogeneous		80% Non-fibrous (Other)	20% Amosite
08-23 *321802463-0023*	Lower level-ceiling E stockroom - 2' by 4' Ceiling tiles	White/Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
08-24 *321802463-0024*	Lower level-ceiling E stockroom - 2' by 4' Ceiling tiles	Tan/White Fibrous Homogeneous	60% Cellulose 10% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
01-25-VFT 1 *321802463-0025*	Upper level- floor near escalator - 12" White VFT w/ mastic				Positive Stop (Not Analyzed)
01-25-Mastic 1/Leveling Compound *321802463-0025A*	Upper level- floor near escalator - 12" White VFT w/ mastic				Positive Stop (Not Analyzed)
01-25-VFT 2 *321802463-0025B*	Upper level- floor near escalator - 12" White VFT w/ mastic	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-25-Mastic 2 *321802463-0025C*	Upper level- floor near escalator - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-26-VFT 1 *321802463-0026*	Upper level- floor near escalator - 12" White VFT w/ mastic				Positive Stop (Not Analyzed)
01-26-Mastic 1/Leveling Compound *321802463-0026A* *Unable to separate*	Upper level- floor near escalator - 12" White VFT w/ mastic				Positive Stop (Not Analyzed)
01-26-VFT 2 *321802463-0026B*	Upper level- floor near escalator - 12" White VFT w/ mastic	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**
01-26-Mastic 2 *321802463-0026C*	Upper level- floor near escalator - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-27-Floor Tile *321802463-0027*	Upper level- floor near escalator - 12" White VFT w/ mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01-27-Mastic *321802463-0027A*	Upper level- floor near escalator - 12" White VFT w/ mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-28 *321802463-0028*	Upper level- wall W - Base cove (brown)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-29-VFT *321802463-0029*	Upper level- floor W near grit - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
06-29-Mastic *321802463-0029A*	Upper level- floor W near grit - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
06-29-Texture Like *321802463-0029B*	Upper level- floor W near grit - 12" Grey VFT w/ mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06-30 *321802463-0030*	Upper level- floor S corner - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
06-31 *321802463-0031*	Upper level- floor N near fitting room - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
06-32 *321802463-0032*	Upper level- floor E corner - 12" Grey VFT w/ mastic				Positive Stop (Not Analyzed)
04-33 *321802463-0033*	Top level- wall N office - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
04-34-Wallboard *321802463-0034*	Top level-wall W hallway - Wallboard	Brown/Beige Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
04-34-Joint Compound 1 *321802463-0034A*	Top level-wall W hallway - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-34-Joint Compound 2 *321802463-0034B*	Top level-wall W hallway - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-35-Wallpaper *321802463-0035*	Top level-wall E near elevator - Wallboard	Brown/Tan Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
04-35-Plaster *321802463-0035A*	Top level-wall E near elevator - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04-35-Wallboard *321802463-0035B*	Top level-wall E near elevator - Wallboard	Tan/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
08-36 *321802463-0036*	Top level- ceiling near office - 2' by 4' Ceiling tiles	White/Beige Fibrous Heterogeneous	40% Cellulose	40% Perlite 20% Non-fibrous (Other)	None Detected

Report amended: 02/09/2018 14:22:51 Replaces initial report from: 02/05/2018 17:52:08 Reason Code: Data Entry-Samples Removed

LA Testing

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LA Testing Order: 321802463
Customer ID: 32EVIS62
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**
09-37-VFT *321802463-0037*	Top level- floor break area - 9" Beige VFT w/ mastic	Gray/Beige Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
09-37-Mastic *321802463-0037A*	Top level- floor break area - 9" Beige VFT w/ mastic	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
09-38 *321802463-0038*	Top level- floor W corner - 9" Beige VFT w/ mastic				Positive Stop (Not Analyzed)
09-39 *321802463-0039*	Top level- floor stockroom - 9" Beige VFT w/ mastic				Positive Stop (Not Analyzed)
10-40 *321802463-0040*	Top level- ceiling N corner - 12" ceiling tiles w/ spine	Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
10-41 *321802463-0041*	Top level- ceiling N corner - 12" ceiling tiles w/ spine	White/Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
10-42 *321802463-0042*	Top level- ceiling N corner - 12" ceiling tiles w/ spine	Tan Fibrous Homogeneous	20% Cellulose 40% Min. Wool	40% Non-fibrous (Other)	None Detected
11-43-Ceiling Tile *321802463-0043*	Top level- ceiling N office - 12" ceiling tiles w/ glue (brown)	White/Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
11-43-Glue *321802463-0043A*	Top level- ceiling N office - 12" ceiling tiles w/ glue (brown)	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
11-44-Ceiling Tile *321802463-0044*	Top level- ceiling N office - 12" ceiling tiles w/ glue (brown)	Brown/White Fibrous Heterogeneous	70% Glass	30% Non-fibrous (Other)	None Detected
11-44-Glue *321802463-0044A*	Top level- ceiling N office - 12" ceiling tiles w/ glue (brown)				Positive Stop (Not Analyzed)
11-45-Ceiling Tile *321802463-0045*	Top level- ceiling hallway - 12" ceiling tiles w/ glue (brown)	Tan/White Fibrous Homogeneous	20% Cellulose 50% Min. Wool	30% Non-fibrous (Other)	None Detected
11-45-Glue *321802463-0045A*	Top level- ceiling hallway - 12" ceiling tiles w/ glue (brown)				Positive Stop (Not Analyzed)
12-46 *321802463-0046*	Top level- ceiling N corner - Fire proofing	Tan/Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
12-47 *321802463-0047*	Top level- ceiling N corner - Fire proofing	Tan/Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
12-48 *321802463-0048*	Top level- ceiling E near elevator - Fire proofing	Gray Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-49-Drywall *321802463-0049*	Top level- wall S near stairs - Plaster	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
05-49-Plaster *321802463-0049A*	Top level- wall S near stairs - Plaster	Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-50-Drywall *321802463-0050*	Top level- wall S near stairs - Plaster	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% 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**
05-50-Plaster *321802463-0050A*	Top level- wall S near stairs - Plaster	Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
05-51-Finish Coat *321802463-0051*	Top level- wall S near stairs - Plaster	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-51-Base Coat *321802463-0051A*	Top level- wall S near stairs - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05-51-Wallboard *321802463-0051B*	Top level- wall S near stairs - Plaster	Tan Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected

Analyst(s)

Arturo Casas (20)
Kieu-anh Pham Duong (57)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

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LA Testing Order:	321802387
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Attention:	EVISTA Env. Health Systems 4030 Birch St Suite 105 Newport Beach, CA 92660	**Phone:**	(888) 775-7738
		Fax:	
		Received Date:	01/30/2018 2:20 PM
		Analysis Date:	02/06/2018 - 02/07/2018
		Collected Date:	01/30/2018
Project:	18-4988CB/ 3RD & Fairfax		

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**
13-52-Shingle 1 *321802387-0001*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-52-Shingle 2 *321802387-0001A*	Upper roof (Kmart)-Roof field - Grey roll roofing	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
13-52-Shingle 3 *321802387-0001B*	Upper roof (Kmart)-Roof field - Grey roll roofing	Gray/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
13-52-Felt 1 *321802387-0001C*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
13-52-Felt 2 *321802387-0001D*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-52-Felt 3 *321802387-0001E*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-52-Felt 4 *321802387-0001F*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
13-53-Shingle 1 *321802387-0002*	Upper roof (Kmart)-Roof field - Grey roll roofing	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-53-Shingle 2 *321802387-0002A*	Upper roof (Kmart)-Roof field - Grey roll roofing	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
13-53-Shingle 3 *321802387-0002B*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black/Beige Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-53-Felt 1 *321802387-0002C*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-53-Felt 2 *321802387-0002D*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-53-Felt 3 *321802387-0002E*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-54-Shingle 1 *321802387-0003*	Upper roof (Kmart)-Roof field - Grey roll roofing	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
13-54-Shingle 2 *321802387-0003A*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
13-54-Felt 1 *321802387-0003B*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% 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**
13-54-Felt 2 *321802387-0003C*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-55-Shingle 1 *321802387-0004*	Upper roof (Kmart)-Roof field - Grey roll roofing	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-55-Shingle 2 *321802387-0004A*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-55-Felts *321802387-0004B*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
13-55-Tar *321802387-0004C*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-55-Insulation *321802387-0004D*	Upper roof (Kmart)-Roof field - Grey roll roofing	Beige Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (Other)	None Detected
13-56-Shingle 1 *321802387-0005*	Upper roof (Kmart)-Roof field - Grey roll roofing	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-56-Shingle 2 *321802387-0005A*	Upper roof (Kmart)-Roof field - Grey roll roofing	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-56-Shingle 3 *321802387-0005B*	Upper roof (Kmart)-Roof field - Grey roll roofing	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-56-Shingle 4 *321802387-0005C*	Upper roof (Kmart)-Roof field - Grey roll roofing	Brown/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-56-Shingle 5 *321802387-0005D*	Upper roof (Kmart)-Roof field - Grey roll roofing	Brown/Tan/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
13-56-Felts *321802387-0005E*	Upper roof (Kmart)-Roof field - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
14-57-Shingle *321802387-0006*	Upper roof (Kmart)-Parapet W - Roof parapet	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
14-57-Felt *321802387-0006A*	Upper roof (Kmart)-Parapet W - Roof parapet	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
14-58-Shingle *321802387-0007*	Upper roof (Kmart)-Parapet S - Roof parapet	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
14-58-Felt *321802387-0007A*	Upper roof (Kmart)-Parapet S - Roof parapet	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
14-59-Shingle *321802387-0008*	Upper roof (Kmart)-Parapet E - Roof parapet	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
14-59-Felt *321802387-0008A*	Upper roof (Kmart)-Parapet E - Roof parapet	Black Fibrous Homogeneous	10% Glass	90% 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**
15-60 *321802387-0009*	Upper roof (Kmart)-Roof penetration & seals - Roofing Mastic (penetration)	Black/Silver Non-Fibrous Homogeneous	10% Cellulose 5% Glass	83% Non-fibrous (Other)	2% Chrysotile
15-61 *321802387-0010*	Upper roof (Kmart)-Roof penetration & seals - Roofing Mastic (penetration)				Positive Stop (Not Analyzed)
15-62 *321802387-0011*	Upper roof (Kmart)-Roof penetration & seals - Roofing Mastic (penetration)				Positive Stop (Not Analyzed)
16-63-Floor Tile *321802387-0012*	Shoe Store- Floor (N) Corner - 12" Beige VFT w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-63-Mastic *321802387-0012A*	Shoe Store- Floor (N) Corner - 12" Beige VFT w/Mastic	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-64-Floor Tile *321802387-0013*	Shoe Store- Floor (C) - 12" Beige VFT w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-64-Mastic *321802387-0013A*	Shoe Store- Floor (C) - 12" Beige VFT w/Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-65-VFT *321802387-0014*	Shoe Store- Floor (E) Corner - 12" Beige VFT w/Mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-65-Mastic 1 *321802387-0014A*	Shoe Store- Floor (E) Corner - 12" Beige VFT w/Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-65-Leveling Compound *321802387-0014B*	Shoe Store- Floor (E) Corner - 12" Beige VFT w/Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-65-Mastic 2 *321802387-0014C*	Shoe Store- Floor (E) Corner - 12" Beige VFT w/Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-66-Basecove *321802387-0015*	Shoe Store- Wall (E) Corner - Base cove	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-66-Mastic *321802387-0015A*	Shoe Store- Wall (E) Corner - Base cove	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-66-Joint Compound *321802387-0015B*	Shoe Store- Wall (E) Corner - Base cove	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-67-Cove Base *321802387-0016*	Shoe Store- Wall (W) Corner - Base cove	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-67-Mastic *321802387-0016A*	Shoe Store- Wall (W) Corner - Base cove	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-68-Wallboard *321802387-0017*	Shoe Store- Wall (S) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
18-68-Joint Compound *321802387-0017A*	Shoe Store- Wall (S) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
18-69-Wallboard *321802387-0018*	Shoe Store- Wall (S) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
18-69-Joint Compound *321802387-0018A*	Shoe Store- Wall (S) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-70-Wallboard *321802387-0019*	Shoe Store- Wall (W) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
18-70-Joint Compound *321802387-0019A*	Shoe Store- Wall (W) Corner - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19-71 *321802387-0020*	Shoe Store- Ceiling (C) - 2' by 4' Ceiling tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
19-72 *321802387-0021*	Shoe Store- Ceiling (C) - 2' by 4' Ceiling tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
19-73 *321802387-0022*	Shoe Store- Ceiling (C) - 2' by 4' Ceiling tiles	White/Beige Fibrous Heterogeneous	40% Cellulose 10% Min. Wool	30% Perlite 20% Non-fibrous (Other)	None Detected
20-74-Ceiling Tile *321802387-0023*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown/White Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
20-74-Mastic *321802387-0023A*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-74-Plaster *321802387-0023B*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	White/Gold Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (Other)	None Detected
20-75-Ceiling Tile *321802387-0024*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
20-75-Mastic *321802387-0024A*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-75-Plaster *321802387-0024B*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	White/Gold Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (Other)	None Detected
20-76-Ceiling Tile *321802387-0025*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
20-76-Mastic *321802387-0025A*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-76-Plaster *321802387-0025B*	Shoe Store- Ceiling Center - 12" Ceiling tiles w/Mastic w/Plaster	Beige Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (Other)	None Detected

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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**
21-77-Joint Compound *321802387-0026* *No WB present for analysis*	Main Floor- Wall (N) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-78-Wallboard *321802387-0027*	Main Floor- Wall (West) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
21-78-Joint Compound *321802387-0027A*	Main Floor- Wall (West) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-79-Joint Compound *321802387-0028* *No WB present for analysis.*	Main Floor- Wall (N) Corner - Wallboard	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22-80 *321802387-0029*	Main Floor- Ceiling-store floor - 2' by 4' Ceiling tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
22-81 *321802387-0030*	Main Floor- Ceiling-office - 2' by 4' Ceiling tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
22-82 *321802387-0031*	Main floor- Ceiling office - 2' by 4' Ceiling tiles	White/Beige Fibrous Heterogeneous	50% Cellulose	40% Perlite 10% Non-fibrous (Other)	None Detected
23-83-Wallboard *321802387-0032*	Main floor- Wall (N) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
23-83-Joint Compound *321802387-0032A*	Main floor- Wall (N) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-84-Wallboard *321802387-0033*	Main floor- Wall (S) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
23-84-Joint Compound *321802387-0033A*	Main floor- Wall (S) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-85-Wallboard *321802387-0034*	Main floor- Wall (E) Corner - Wallboard	Brown/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
23-85-Joint Compound *321802387-0034A*	Main floor- Wall (E) Corner - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-86-Wallboard *321802387-0035*	Main floor- Back storage Wall (W) - Wallboard	Brown/Beige Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
23-86-Joint Compound *321802387-0035A*	Main floor- Back storage Wall (W) - Wallboard	Yellow/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
23-87-Wallboard *321802387-0036*	Main floor- Office Wall (N) - Wallboard	Brown/Beige Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
23-87-Joint Compound *321802387-0036A*	Main floor- Office Wall (N) - Wallboard	Yellow/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
24-88-VFT *321802387-0037*	Back storage- Floor (N) corner - 12" Grey VFT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/08/2018 18:09:57 Replaces initial report from: 02/07/2018 08:00:44 Reason Code: Client-Change to Sample ID

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520 Mission Street South Pasadena, CA 91030
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LA Testing Order: 321802387
Customer ID: 32EVIS62
Customer PO:
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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**
24-88-Mastic *321802387-0037A*	Back storage- Floor (N) corner - 12" Grey VFT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-88-Leveling Compound *321802387-0037B*	Back storage- Floor (N) corner - 12" Grey VFT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-89-VFT *321802387-0038*	Office- Floor (W) corner - 12" Grey VFT	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-89-Mastic *321802387-0038A*	Office- Floor (W) corner - 12" Grey VFT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-89-Leveling Compound *321802387-0038B*	Office- Floor (W) corner - 12" Grey VFT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-90-Basecove *321802387-0039*	Back storage- Wall (N) corner - Base Cove	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-90-Mastic *321802387-0039A*	Back storage- Wall (N) corner - Base Cove	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-90-Joint Compound *321802387-0039B*	Back storage- Wall (N) corner - Base Cove	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-91-Cove Base *321802387-0040*	Office-Wall (S) Corner - Base Cove	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-91-Mastic *321802387-0040A*	Office-Wall (S) Corner - Base Cove	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-91-Joint Compound *321802387-0040B*	Office-Wall (S) Corner - Base Cove	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26-92 *321802387-0041*	Main floor- Ceiling (N) - 2' by 4' Ceiling Tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
26-93 *321802387-0042*	Main floor- Ceiling (S) - 2' by 4' Ceiling Tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
26-94 *321802387-0043*	Back storage- Ceiling - 2' by 4' Ceiling Tiles	Gray/White Fibrous Heterogeneous	40% Cellulose 20% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
26-95 *321802387-0044*	Office- Ceiling - 2' by 4' Ceiling Tiles	White/Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
26-96 *321802387-0045*	Office- Ceiling - 2' by 4' Ceiling Tiles	White/Beige Fibrous Heterogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
27-97 *321802387-0046*	Office- Ceiling (C) - Fire proofing	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
27-98 *321802387-0047*	Office- Ceiling (C) - Fire proofing	Gray Fibrous Homogeneous	70% Min. Wool	30% 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**
27-99 *321802387-0048*	Office- Ceiling (C) - Fire proofing	Gray Fibrous Homogeneous	60% Min. Wool	40% Non-fibrous (Other)	None Detected
28-100-Glue *321802387-0049*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-100-Foam *321802387-0049A*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-101-Glue *321802387-0050*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-101-Foam *321802387-0050A*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-102 *321802387-0051*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-103-Glue 1 *321802387-0052*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-103-Glue 2 *321802387-0052A*	Main floor- Floor (under carpet) - Carpet Glue	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
28-103-Foam *321802387-0052B*	Main floor- Floor (under carpet) - Carpet Glue	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-104-Glue 1 *321802387-0053*	Main floor- Floor (under carpet) - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-104-Glue 2 *321802387-0053A*	Main floor- Floor (under carpet) - Carpet Glue				Positive Stop (Not Analyzed)
28-104-Foam *321802387-0053B*	Main floor- Floor (under carpet) - Carpet Glue	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Kieu-anh Pham Duong (45)

Rosa Mendoza (68)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

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LA Testing Order:	321802770
Customer ID:	32EVIS62
Customer PO:	
Project ID:	

Attention:	Chris Blake	**Phone:**	(888) 775-7738
	EVISTA Env. Health Systems	**Fax:**	
	4030 Birch St	**Received Date:**	02/01/2018 1:35 PM
	Suite 105	**Analysis Date:**	02/08/2018
	Newport Beach, CA 92660	**Collected Date:**	02/01/2018
Project:	18-4988CB 3rd & Fairfax		

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**
29-105-Joint Compound *321802770-0001* *No Drywall present for analysis*	Newstand storage office wall N - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-105-Mesh *321802770-0001A* *No Drywall present for analysis*	Newstand storage office wall N - Wallboard	Yellow Non-Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
29-106-Finish Coat *321802770-0002* *No Drywall present for analysis*	Newstand storage office wall N - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-106-Base Coat *321802770-0002A* *No Drywall present for analysis*	Newstand storage office wall N - Wallboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-106-Insulation *321802770-0002B* *No Drywall present for analysis*	Newstand storage office wall N - Wallboard	Gray Non-Fibrous Homogeneous	40% Synthetic	60% Non-fibrous (Other)	None Detected
29-107-Finish Coat *321802770-0003*	Newstand main area wall W - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-107-Base Coat *321802770-0003A*	Newstand main area wall W - Wallboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-108-Drywall *321802770-0004*	Newstand main area wall W - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
29-108-Joint Compound *321802770-0004A*	Newstand main area wall W - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-108-Mesh *321802770-0004B*	Newstand main area wall W - Wallboard	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
29-109 *321802770-0005*	Newstand main area wall E - Wallboard	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
30-110-Floor Tile *321802770-0006*	Newstand storage office floor - 12" grey VFT w/mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-110-Mastic *321802770-0006A*	Newstand storage office floor - 12" grey VFT w/mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-111-Floor Tile *321802770-0007*	Newstand storage office floor - 12" grey VFT w/mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/09/2018 15:36:33 Replaces amended report from: 02/09/2018 15:30:20 Reason Code: DataEntry-Other (see report comment)

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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**
30-111-Mastic *321802770-0007A*	Newstand storage office floor - 12" grey VFT w/mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-112-Floor Tile *321802770-0008*	Newstand storage office floor - 12" grey VFT w/mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-112-Mastic *321802770-0008A*	Newstand storage office floor - 12" grey VFT w/mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-113-Base Cove *321802770-0009*	Newstand main area wall W - Basecove	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-113-Mastic *321802770-0009A*	Newstand main area wall W - Basecove	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-114-Cove Base *321802770-0010*	Newstand main area wall E - Basecove	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-114-Mastic *321802770-0010A*	Newstand main area wall E - Basecove	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-115-Ceiling Tile *321802770-0011*	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	Brown/White Non-Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
32-115-Mastic *321802770-0011A*	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-115-Plaster *321802770-0011B*	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-116-Ceiling Tile *321802770-0012*	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	Brown/White Non-Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
32-116-Mastic *321802770-0012A*	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-116-Plaster *321802770-0012B* `	Newstand storage / office ceiling - 12" ACT w/ mastic w/ plaster	White/Beige Non-Fibrous Homogeneous		10% Mica 90% Non-fibrous (Other)	None Detected
32-117-Ceiling Tile *321802770-0013*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown/White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
32-117-Mastic *321802770-0013A*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-117-Plaster *321802770-0013B*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-118-Ceiling Tile *321802770-0014*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown/White Fibrous Homogeneous	95% Cellulose	5% 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**
32-118-Mastic *321802770-0014A*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-118-Plaster *321802770-0014B*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-119-Ceiling Tile *321802770-0015*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
32-119-Mastic *321802770-0015A*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-119-Plaster *321802770-0015B*	Newstand main area ceiling - 12" ACT w/ mastic w/ plaster	White/Beige Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
33-120 *321802770-0016*	Newstand storage / office ceiling - 2'x4' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
33-121 *321802770-0017*	Newstand storage / office ceiling - 2'x4' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
33-122 *321802770-0018*	Newstand main area ceiling - 2'x4' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
33-123 *321802770-0019*	Newstand main area ceiling - 2'x4' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
33-124 *321802770-0020*	Newstand main area ceiling - 2'x4' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
34-125 *321802770-0021*	Newstand main area ceiling - Plaster	White Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
34-126 *321802770-0022*	Newstand main area ceiling - Plaster	White Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
34-127 *321802770-0023*	Newstand main area ceiling - Plaster	White/Beige Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
35-128 *321802770-0024*	Newstand main area floor - Carpet glue	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (Other)	None Detected
35-129 *321802770-0025*	Newstand main area floor - Carpet glue	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (Other)	None Detected
35-130 *321802770-0026*	Newstand main area floor - Carpet glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-131 *321802770-0027* *No Drywall present for analysis*	Andres hall wall E - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-132-Drywall *321802770-0028*	Andres dining area 3 wall W - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose 5% Glass	80% 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**
36-132-Joint Compound *321802770-0028A*	Andres dining area 3 wall W - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-133-Joint Compound *321802770-0029* *No Drywall present for analysis*	Andres dining area 1 wall S - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-133-Mesh *321802770-0029A* *No Drywall present for analysis*	Andres dining area 1 wall S - Wallboard	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
36-134 *321802770-0030*	Andres hall wall N - Wallboard	White/Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-135-Drywall *321802770-0031*	Andres dining room 2 walls - Wallboard	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
36-135-Joint Compound *321802770-0031A*	Andres dining room 2 walls - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-136-Skim Coat *321802770-0032*	Andres food prep 3 wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-136-Finish Coat *321802770-0032A*	Andres food prep 3 wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-136-Base Coat *321802770-0032B*	Andres food prep 3 wall W - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-137-Skim Coat *321802770-0033*	Andres food prep 3 wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-137-Finish Coat *321802770-0033A*	Andres food prep 3 wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-137-Base Coat *321802770-0033B*	Andres food prep 3 wall W - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-138-Finish Coat *321802770-0034*	Andres storage wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-138-Base Coat *321802770-0034A*	Andres storage wall W - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-139-Finish Coat *321802770-0035*	Andres storage wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-139-Base Coat *321802770-0035A*	Andres storage wall W - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-140-Finish Coat *321802770-0036*	Andre food prep 1 wall E - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-140-Base Coat *321802770-0036A*	Andre food prep 1 wall E - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing Order: 321802770
Customer ID: 32EVIS62
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**
37-140-Drywall *321802770-0036B*	Andre food prep 1 wall E - Plaster	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
38-141-Ceiling Tile *321802770-0037*	Andre waiting room ceiling - 12" ACT with mastic	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
38-141-Mastic *321802770-0037A*	Andre waiting room ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-142-Ceiling Tile *321802770-0038*	Andre waiting room ceiling - 12" ACT with mastic	Brown/White Non-Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
38-142-Mastic *321802770-0038A*	Andre waiting room ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-143-Ceiling Tile *321802770-0039*	Andre dining area 3 ceiling - 12" ACT with mastic	Brown/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
38-143-Mastic *321802770-0039A*	Andre dining area 3 ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-144-Ceiling Tile *321802770-0040*	Andre dining area 3 ceiling - 12" ACT with mastic	Brown/White Non-Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
38-144-Mastic *321802770-0040A*	Andre dining area 3 ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-145-Ceiling Tile *321802770-0041*	Andre dining area 2 ceiling - 12" ACT with mastic	Gray/White Fibrous Homogeneous	50% Cellulose 20% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
38-145-Mastic *321802770-0041A*	Andre dining area 2 ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-146-Ceiling Tile-1 *321802770-0042*	Andre dining area 2 ceiling - 12" ACT with mastic	Gray/White Fibrous Homogeneous	50% Cellulose 20% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
38-146-Ceiling Tile-2 *321802770-0042A*	Andre dining area 2 ceiling - 12" ACT with mastic	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
38-146-Mastic *321802770-0042B*	Andre dining area 2 ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-147-Ceiling Tile 1 *321802770-0043*	Andre dining area 2 ceiling - 12" ACT with mastic	Gray/White Non-Fibrous Homogeneous	50% Cellulose 15% Min. Wool	15% Perlite 20% Non-fibrous (Other)	None Detected
38-147-Ceiling Tile 2 *321802770-0043A*	Andre dining area 2 ceiling - 12" ACT with mastic	Brown/White Non-Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
38-147-Mastic *321802770-0043B*	Andre dining area 2 ceiling - 12" ACT with mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
39-148 *321802770-0044*	Andre dining area 1 ceiling - 2'x2' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
39-149 *321802770-0045*	Andre dining area 1 ceiling - 2'x2' ceiling tiles	Gray/White Fibrous Homogeneous	50% Cellulose 20% Glass	20% Perlite 10% 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**
39-150 *321802770-0046*	Andres dining area 1 ceiling - 2'x2' ceiling tiles	Gray/White Fibrous Homogeneous	60% Cellulose 15% Min. Wool	15% Perlite 10% Non-fibrous (Other)	None Detected
40-151 *321802770-0047*	Andres food prep 1 ceiling - 2'x4' ACP	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
40-152 *321802770-0048*	Andres food prep 1 ceiling - 2'x4' ACP	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
40-153 *321802770-0049*	Andres food prep 1 ceiling - 2'x4' ACP	Brown/White Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
41-154 *321802770-0050*	Wigs today main floor ceiling - Fireproofing	White/Yellow Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
41-155 *321802770-0051*	Wigs today main floor ceiling - Fireproofing	White Non-Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
41-156 *321802770-0052*	Wigs storage ceiling - Fireproofing	White Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
42-157 *321802770-0053*	Wigs main floor ceiling - 2'x4' ACP	Gray/White Fibrous Homogeneous	60% Cellulose 10% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
42-158 *321802770-0054*	Wigs main floor ceiling - 2'x4' ACP	Gray/White Fibrous Homogeneous	60% Cellulose 10% Glass	20% Perlite 10% Non-fibrous (Other)	None Detected
42-159 *321802770-0055*	Wigs storage ceiling - 2'x4' ACP	Gray/White Fibrous Homogeneous	60% Cellulose 15% Min. Wool	20% Perlite 5% Non-fibrous (Other)	None Detected
43-160-Drywall *321802770-0056*	Wigs storage walls S - Wallboard	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
43-160-Joint Compound *321802770-0056A*	Wigs storage walls S - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-160-Tape *321802770-0056B*	Wigs storage walls S - Wallboard	Beige Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
43-161-Drywall *321802770-0057*	Wigs storage walls S - Wallboard	Brown/White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
43-161-Joint Compound *321802770-0057A*	Wigs storage walls S - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-162-Drywall *321802770-0058*	Wig bathwall N - Wallboard	Brown/White Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
43-162-Joint Compound *321802770-0058A*	Wig bathwall N - Wallboard	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-162-Tape *321802770-0058B*	Wig bathwall N - Wallboard	Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
44-163-Cove Base *321802770-0059*	Wig bathwall E - Wallboard	Beige 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**
Appears to be Cove base					
44-163-Mastic *321802770-0059A*	Wig bathwall E - Wallboard	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44-164-Cove Base *321802770-0060*	Wig bathwall S - Wallboard	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Appears to be Cove Base					
44-164-Mastic *321802770-0060A*	Wig bathwall S - Wallboard	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-165-Linoleum-1 *321802770-0061*	Wigs today bath floor - Grey/white linoleum	Gray/White/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-165-Mastic-1 *321802770-0061A*	Wigs today bath floor - Grey/white linoleum	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-165-Linoleum-2 *321802770-0061B*	Wigs today bath floor - Grey/white linoleum	Gray/White Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
45-165-Mastic-2 *321802770-0061C*	Wigs today bath floor - Grey/white linoleum	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-166-Linoleum 1 *321802770-0062*	Wigs today bath floor - Grey/white linoleum	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-166-Mastic 1 *321802770-0062A*	Wigs today bath floor - Grey/white linoleum	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45-166-Linoleum 2 *321802770-0062B*	Wigs today bath floor - Grey/white linoleum	Gray Non-Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
45-166-Mastic 2 *321802770-0062C*	Wigs today bath floor - Grey/white linoleum	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Guillermo Hernandez (64)

Humberto Espinoza (52)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

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LA Testing Order:	321802878
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Project ID:	

Attention:	Lab Results	**Phone:**	(888) 775-7738
	EVISTA Env. Health Systems	**Fax:**	
	4030 Birch St	**Received Date:**	02/02/2018 12:25 PM
	Suite 105	**Analysis Date:**	02/09/2018
	Newport Beach, CA 92660	**Collected Date:**	02/02/2018
Project:	18-4988CB / 3rd & Fairfax		

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**
46-137-Coating *321802878-0001*	Lower roof NE corner - Penetration mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46-137-Mastic *321802878-0001A*	Lower roof NE corner - Penetration mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
46-168-Coating *321802878-0002*	Lower roof center - Penetration mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46-168-Mastic *321802878-0002A*	Lower roof center - Penetration mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
46-169-Coating *321802878-0003*	Lower roof W corner - Penetration mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46-169-Mastic *321802878-0003A*	Lower roof W corner - Penetration mastic	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
47-170 *321802878-0004*	Lower NE corner - Parapet	White/Black Fibrous Heterogeneous	8% Synthetic 5% Glass	87% Non-fibrous (Other)	None Detected
47-171-Parapet *321802878-0005*	Lower N corner - Parapet	White/Black Fibrous Heterogeneous	8% Synthetic 2% Glass	90% Non-fibrous (Other)	None Detected
47-171-Roofing *321802878-0005A*	Lower N corner - Parapet	Black Fibrous Homogeneous	3% Synthetic 8% Glass	89% Non-fibrous (Other)	None Detected
47-171-Cementitious Material *321802878-0005B*	Lower N corner - Parapet	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
47-172-Parapet *321802878-0006*	Lower W corner - Parapet	White/Black Non-Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
47-172-Felt-1 *321802878-0006A*	Lower W corner - Parapet	Black Fibrous Homogeneous	10% Cellulose	80% Non-fibrous (Other)	10% Chrysotile
47-172-Felt-2 *321802878-0006B*	Lower W corner - Parapet	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
47-172-Cementitious Material *321802878-0006C*	Lower W corner - Parapet	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48-173-Shingle *321802878-0007*	Lower E corner - Roofing rool grey	White/Black Fibrous Heterogeneous	10% Synthetic	90% 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**
48-173-Felt *321802878-0007A*	Lower E corner - Roofing rool grey	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-173-Insulation *321802878-0007B*	Lower E corner - Roofing rool grey	Brown Fibrous Homogeneous	40% Cellulose 5% Glass	20% Perlite 35% Non-fibrous (Other)	None Detected
48-174-Shingle *321802878-0008*	Lower center - Roofing rool grey	White/Black Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
48-174-Felt *321802878-0008A*	Lower center - Roofing rool grey	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-174-Insulation *321802878-0008B*	Lower center - Roofing rool grey	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
48-175-Shingle *321802878-0009*	Lower W corner - Roofing rool grey	White/Black Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
48-175-Roofing 1 *321802878-0009A*	Lower W corner - Roofing rool grey	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
48-175-Roofing 2 *321802878-0009B*	Lower W corner - Roofing rool grey	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
48-175-Felt *321802878-0009C*	Lower W corner - Roofing rool grey	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-175-Insulation *321802878-0009D*	Lower W corner - Roofing rool grey	Brown Fibrous Homogeneous	40% Cellulose 5% Glass	20% Perlite 35% Non-fibrous (Other)	None Detected
48-176-Roofing *321802878-0010*	Lower S corner - Roofing rool grey	White/Black Fibrous Heterogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
48-176-Felt *321802878-0010A*	Lower S corner - Roofing rool grey	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
48-176-Rubber Membrane *321802878-0010B*	Lower S corner - Roofing rool grey	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
48-177-Roofing *321802878-0011*	Lower S corner - Roofing rool grey	White/Black Non-Fibrous Heterogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
48-177-Felt-1 *321802878-0011A*	Lower S corner - Roofing rool grey	Black Non-Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
48-177-Felt-2 *321802878-0011B*	Lower S corner - Roofing rool grey	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-177-Felt-3 *321802878-0011C*	Lower S corner - Roofing rool grey	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-177-Rubber Membrane *321802878-0011D*	Lower S corner - Roofing rool grey	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
49-178 *321802878-0012*	Lower S corner - Transite	White Fibrous Homogeneous		75% Non-fibrous (Other)	15% Chrysotile 10% Crocidolite
50-179 *321802878-0013*	Lower E corner - White sealant	White Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
51-180 *321802878-0014*	Lower center - Grey sealant ducting	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51-181 *321802878-0015*	Lower center - Grey sealant ducting	Gray/Gold Non-Fibrous Homogeneous		5% Mica 95% Non-fibrous (Other)	None Detected
48-183-Shingle 1 *321802878-0016*	Lower roof center - Grey roll roofing	White/Black Fibrous Heterogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
48-183-Shingle 2 *321802878-0016A*	Lower roof center - Grey roll roofing	Black/Beige Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
48-183-Roofing *321802878-0016B*	Lower roof center - Grey roll roofing	Black Non-Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
48-183-Felt *321802878-0016C*	Lower roof center - Grey roll roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
48-183-Tar *321802878-0016D*	Lower roof center - Grey roll roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-184-Finish Coat 1 *321802878-0017*	Lower roof S corner - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-184-Base Coat 1 *321802878-0017A*	Lower roof S corner - Stucco	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-184-Finish Coat 2 *321802878-0017B*	Lower roof S corner - Stucco	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-184-Base Coat 2 *321802878-0017C*	Lower roof S corner - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-185-Finish Coat 1 *321802878-0018*	Exterior wall S - Stucco	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-185-Finish Coat 2 *321802878-0018A*	Exterior wall S - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-185-Base Coat *321802878-0018B*	Exterior wall S - Stucco	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-186-Finish Coat *321802878-0019*	Exterior wall S - Stucco	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-186-Base Coat *321802878-0019A*	Exterior wall S - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-187-Finish Coat *321802878-0020*	Exterior wall S - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
52-187-Base Coat *321802878-0020A*	Exterior wall S - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-188-Finish Coat *321802878-0021*	Exterior wall S - Stucco	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-188-Base Coat *321802878-0021A*	Exterior wall S - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-189-Finish Coat *321802878-0022*	Exterior wall E - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-189-Base Coat *321802878-0022A*	Exterior wall E - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-190-Finish Coat *321802878-0023*	Exterior wall E - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52-190-Base Coat *321802878-0023A*	Exterior wall E - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-191-Finish Coat *321802878-0024*	Exterior corridor wall W - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-191-Base Coat *321802878-0024A*	Exterior corridor wall W - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-192-Finish Coat *321802878-0025*	Exterior corridor wall E - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-192-Base Coat *321802878-0025A*	Exterior corridor wall E - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-193-Finish Coat *321802878-0026*	Exterior corridor wall E - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
53-193-Base Coat *321802878-0026A*	Exterior corridor wall E - Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51-182 *321802878-0027*	Lower Roof Center - Grey Sealant Ducting	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Result represents repeated sample # 180 on log, #182 on sample bag.

Initial report from: 02/09/2018 13:04:00

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:	321802878
Customer ID:	32EVIS62
Customer PO:	
Project ID:	

Analyst(s)

Humberto Espinoza (23)

Rosa Mendoza (43)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. 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. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by LA Testing South Pasadena, CA NVLAP Lab Code 200232-0, CA ELAP 2283

Initial report from: 02/09/2018 13:04:00

#321802357

evista

LABORATORY

CHAIN-OF-CUSTODY

SITE ADDRESS
STREET 6300 West 3rd. Street
CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & Fairfax	01-29-18	5 day NR 8HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
01	01	L41 Cleaners - Floor Dining Room	12" Black VFT w/mastic							PLM
	02									
02	03	- Floor Dining Room	12" White VFT w/mastic							
	04									
	05									
	06									
	07									
03	08	- Floor Dining Room	12" Green/Blue VFT w/mastic							
	09									
04	10	- Floor Dining Room	12" Beige VFT w/Mastic							
	11									
	12									
05	13	Wall (E) Dining Room	Base cove (Black)							
	14									
06	15	Wall (E) Dining Room	Wallboard							

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		1/29/18 1630

IMPORTANT LABORATORY NOTES

ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.

EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM

ADDITIONAL EMAIL TO:

Evista Industries, Inc. | Ph. 888-775-7738 | Corporate Office, 4030 Birch St. Suite #105 Newport Beach, CA 92660
Southern California Field Offices: Inland Empire | Los Angeles/Ventura | L.A. South Bay | San Diego

OrderID: 321802357

#32180235

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LABORATORY

CHAIN-OF-CUSTODY

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CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-29-18	1 5 day 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
06	16	Lit Grasses - Wall (E) Dining Room	Wallboard							PLM
	17									
	18									
	19	- Wall (W) Dining Room								
07	20	- Ceiling, Food prep Area	2' by 4' Ceiling Tiles (Drop)							
07	21									
	22									

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		

IMPORTANT LABORATORY NOTES

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CHAIN-OF-CUSTODY

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CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-29-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
01	01	Lower level - Floor NE Corner	12" White VFT w/ mastic							PLM
	02	- Floor W Stockroom								
	03	- Floor E stockroom								
	04	- Floor Near Escalator								
02	05	Lower Level - Wall (N)	Base cove (Black)							
	06	- Wall (W)								
	07	- Wall (N)								
03	08	Lower Level Floor N corner	Brown Linoleum w/mastic							
03	09									
	10									
04	11	Lower Level - wall (N) corner	Wallboard							
	12	- Wall (NE) corner								
	13	- Wall (E) corner								
	14	- Wall (west) stockroom								
05	15	Lower Level - Ceiling (west) stockroom	Plaster							

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		01/29/18 1630

IMPORTANT LABORATORY NOTES

ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.

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SITE ADDRESS
STREET 6300 West 3rd. Street
CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-29-18	(5 day) 8HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
05	16	Lower Level - Ceiling (W) Stockroom	Plaster							PLM
↓	17	↓ Wall (S) Stockroom	↓							↓
	18	↓ Wall (S) Stockroom	↓							
06	19	Lower Level - Floor (E) Stockroom	12" Grey VFT w/ Mastic							
↓	20	↓	↓							
	21	↓	↓							
07	22	Lower Level - (S) Stockroom	~~2' by 4' Ceiling Tiles~~ Gap w/ Fire door insulation							
08	23	Lower Level - ceiling (E) Stockroom	2' by 4' ceiling Tiles							
↓	24	↓	↓							
01	25	Upper Level - Floor Main Entrance	12" white VFT w/ Mastic							
↓	26	↓	↓							
↓	27	↓	↓							
02	28	Upper Level - wall (W)	Base cove (Brown)							
06	29	Upper Level - Floor (W) Near Exit	12" Grey VFT w/ Mastic							
1	30	1 ↓ - Floor (S) corner	↓							

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		

IMPORTANT LABORATORY NOTES

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CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB-3rd&FAIRFAX		01-29-18	(5 day) 1HR 8HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
06	31	Upper Level - Floor (N) Men's Room	12" VFT (Grey) w/ Mastic							PLM
1	32	Upper Level - Floor (E) room								
04	33	Top Level - Wall (N) office	Wallboard							
|	34	- Wall (W) Hallway								
|	35	- Wall (E) Men Elevator								
08	36	Top Level - Ceiling Men office	2' by 4' Ceiling Tiles							
09	37	- Floor Break Area	9" Beige VFT w/ Mastic							
|	38	- Floor (W) corner								
|	39	- Floor (N) storeroom								
10	40	Top Level - Ceiling (N) room	12" ceiling Tiles w/spine							
|	41									
|	42									
11	43	Top Level - ceiling (N) office	12" ceiling Tiles w/glue (Brown)							
|	44									
|	45	Top Level - ceiling (C) Hallway								

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		

IMPORTANT LABORATORY NOTES

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CITY Los Angeles ZIP 90036
PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-29-18	5 day 3HR 6HR 24HR SATURDAY

SAMPLE ID	SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
12 46	Top Level - Ceiling (N) Corner	Fire proofing							PLM
47									
48	- Ceiling (E) Near Elevator								
05 49	Top Level - Wall (S) Near Stairs	Plaster							
50									
51									

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/29/18	4:30		

IMPORTANT LABORATORY NOTES

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CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-30-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
13	52	Upper roof (Kmart) - roof field	Grey roll roofing							PLM
	53									
	54									
	55									
	56									
14	57	- Parapet (W)	Roof Parapet							
	58	(S)								
	59	(E)								
15	60	- Roof penetration & seals	Roofing Mastic (Penetrating)							
	61									
	62									
16	63	Shoe store - Floor (N) corner	12" Beige VFT w/Mastic							
	64	- Floor (C)								
	65	- Floor (E) corner								
17	66	- Wall (E) corner	Base cove							

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/30/18	2:15		DFlores (WI) 1/30/18 2:20pm

IMPORTANT LABORATORY NOTES

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PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-30-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
17	67	Shoe store - Wall(W) Corner	Base cove							PLM
18	68	- Wall(S) Corner	Wallboard							
	69	- Wall (S) Corner								
	70	- Wall(W) Corner								
19	71	- Ceiling (C)	2' by 4' Ceiling Tiles							
	72									
	73									
20	74	- Ceiling Center	12" Ceiling Tiles w/Mosaic w/Plaster							
	75									
	76									
21	77	Main Floor - Wall(N) Corner	Wallboard							
	78	- Wall(West) Corner								
	79	- Wall(N) Corner								
22	80	- ceiling - Store floor	2' by 4' ceiling Tiles							
	81	- ceiling - office								

DATE	TIME	RELINQUISHED BY	RECEIVED BY
01/30/18	2:15		

IMPORTANT LABORATORY NOTES

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CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-30-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
22	82	Main Floor - ceiling office	2' by 4' ceiling Tiles							PLM
23	83	- Wall (N) Corner	Wallboard							
	84	- Wall (S) Corner								
	85	- Wall (E) corner								
	86	- Back storage wall (W)								
	87	- office wall (N)								
24	88	Back storage - Floor (N) corner	12" Grey VFT							
	89	Office - Floor (W) corner								
25	90	Back Storage - wall (N) corner	Base cove							
	91	Office - Wall (S) corner								
26	92	Main floor - ceiling (N)	2' by 4' ceiling Tiles							
	93	Main floor - ceiling (S)								
	94	Back storage - ceiling								
	95	Office - ceiling								
	96									

DATE	TIME	RELINQUISHED BY	RECEIVED BY	IMPORTANT LABORATORY NOTES
01/30/18	2:15			ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.
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CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	01-30-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID	SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
27 97	Office - Ceiling (c)	Fire proofing							PLM
98									
99									
28 100	Main flor floor (under carpet)	Carpet glue							
101									
102									
103									
104									

DATE	TIME	RELINQUISHED BY	RECEIVED BY	IMPORTANT LABORATORY NOTES
01/30/18	2:15			ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.
				EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM
				ADDITIONAL EMAIL TO:

OrderID: 321802387

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CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-01-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
29	105	Newsstand - storage office - wall (N)	Wallboard							PLM
	106									
	107	- Main Area - Wall (W)								
	108									
	109	- wall (E)								
30	110	- storage/office - floor	12" Grey VFT w/Mastic							
	111									
	112									
31	113	- Main Area - Wall (W)	Base cove							
	114	- wall (E)								
32	115	Storage/office, ceiling	12" ACT w/Mastic, w/ Plaster							
	116									
	117	Main Area, ceiling								
	118									
	119									

DATE	TIME	RELINQUISHED BY	RECEIVED BY	IMPORTANT LABORATORY NOTES
02/01/18	1:27		2/1/18 1335	ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.
				EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM
				ADDITIONAL EMAIL TO:

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CITY Los Angeles ZIP 90036
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PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-01-18	5 day 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
33	120	Newstand - storage/office - ceiling	2'by 4' ceiling Tiles							PLM
	121									
	122	- Main Area, ceiling								
	123									
	124									
34	125	- Main Area, ceiling	Plaster							
	126									
	127									
35	128	- Main Area, Floor	Carpet Glue							
	129									
	130									
36	131	Andre's - Hall - wall (E)	Wallboard							
	132	- Dining Area 3 - wall (W)								
	133	- Dining Area 2 - Wall (S)								
	134	- Hall - Wall (N)								

DATE	TIME	RELINQUISHED BY	RECEIVED BY
02/01/18	1:27		

IMPORTANT LABORATORY NOTES

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CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-01-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
36	135	Andre's - Dining Room 2 - Wall (S)	Wallboard							PLM
37	136	- Food prep 3 - Wall (W)	Plaster							
	137									
	138	- Storage - Wall (W)								
	139									
	140	- Food prep 1 - Wall (E)								
38	141	- Waiting Room - Ceiling	12" ACT with Mastic							
	142									
	143	- Dining Area 3 - Ceiling								
	144									
	145	- Dining Area 2 - Ceiling								
	146									
	147									
39	148	- Dining Area 1 - Ceiling	2' by 2' Ceiling Tiles							
	149									

DATE	TIME	RELINQUISHED BY	RECEIVED BY	IMPORTANT LABORATORY NOTES
02/01/18	1:27			ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.
				EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM
				ADDITIONAL EMAIL TO:

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PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-01-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
39	150	Andres - Dining Area - Ceiling	2'by 2' Ceiling Tiles							PLM
40	151	- Food Prep I - Ceiling	2'by 4' ACP							
	152									
	153									
41	154	Wigs Today - Main Floor - Ceiling	Fire proofing							
	155									
	156	Storage - Ceiling								
42	157	Mainfloor - Ceiling	2'by 4' ACP							
	158									
	159	Storage - Ceiling								
43	160	Storage - Wall (S)	Wall board							
	161									
	162	Bath - wall (N)								
44	163	Bath - wall (E)								
	164	(S)								

DATE	TIME	RELINQUISHED BY	RECEIVED BY	IMPORTANT LABORATORY NOTES
02/01/18	1:27		2/1/18 1335	ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.
				EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM
				ADDITIONAL EMAIL TO:

OrderID: 321802770

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PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-01-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID	SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
45 ~~165~~ 165	Wigs Today - Bath - floor	Grey/white Linolium							PLM
45 166									

DATE	TIME	RELINQUISHED BY	RECEIVED BY
02/01/18	1:27		

IMPORTANT LABORATORY NOTES

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ADDITIONAL EMAIL TO:

OrderID: 321802770

#321802878

evista

LABORATORY

CHAIN-OF-CUSTODY

SITE ADDRESS

STREET 6300 West 3rd. Street

CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-02-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
46	167	Lower Roof - (NE) Corner	Penetration Mastic							PLM
	168	- Center								
	169	- (W) Corner								
47	170	- (NE) Corner	Parapet							
	171	- (N) Corner								
	172	- (W) Corner								
48	173	- (E) Corner	Roofing (roll) (Grey)							
	174	- (C) Center								
	175	- (W) Corner								
	176	- (S) Corner								
	177									
49	178	- (S) Corner	Transite							
50	179	- (E) - Corner	White Sealant							
51	180	- Center	Grey Sealant (Ducting)							
	181									

DATE	TIME	RELINQUISHED BY	RECEIVED BY
02/02/18	11:24		
2-2-18	12:25pm	(WI)	

IMPORTANT LABORATORY NOTES

ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.

EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM

ADDITIONAL EMAIL TO:

OrderID: 321802878

#321802878

evista

LABORATORY

CHAIN-OF-CUSTODY

SITE ADDRESS

STREET 6300 West 3rd. Street

CITY Los Angeles ZIP 90036

PROJECT MANAGER Chris Blake

PROJECT #	PROJECT NAME	SAMPLING DATE	TURNAROUND TIME (circle below)
18-4988CB	3rd & FAIRFAX	02-02-18	(5 day) 3HR 6HR 24HR SATURDAY

SAMPLE ID		SAMPLE LOCATION	DESCRIPTION	TIME START	TIME STOP	FLOW START	FLOW STOP	TIME TOTAL	AREA/VOLUME	ANALYSIS
51	180	Lower Roof - Center	Grey Sealant (Ducting)							PLM
48	183	L-(S) corner	Grey RoN Roofing							
52	184	Exterior - wall (S)	Stucco							
	185									
	186									
	187									
	188									
	189	- wall (E)								
	190									
53	191	- Corridor - wall (W)	Plaster							
	192	- L - wall (E)								
	193									

DATE	TIME	RELINQUISHED BY	RECEIVED BY
02/02/18	11:24		
2-2-18	12:25pm	T. [illegible] (WI)	

IMPORTANT LABORATORY NOTES

ANALYZE ALL PLM SAMPLE H.A.'S LAYER(S) AND STOP POSITIVE PER POSTIVE LAYER(S), EXCEPT WALL SYSTEMS. FOR WALL SYSTEMS STOP POSITIVE PER SAMPLE.

EMAIL RESULTS TO: LABRESULTS@EVISTA-EHS.COM

ADDITIONAL EMAIL TO:

OrderID: 321802878

Field Datasheet

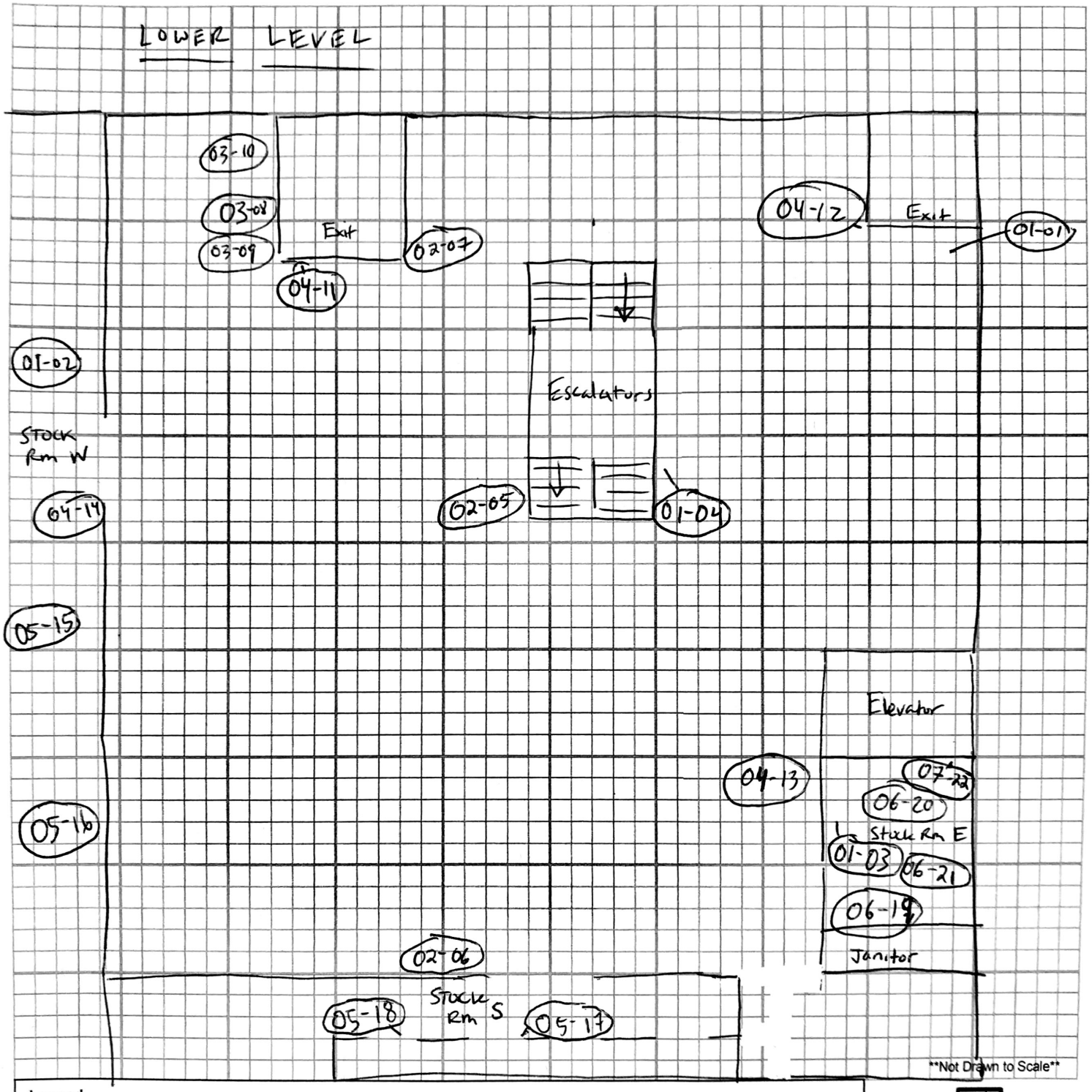
Job Name: Kmart / 18-4988

Address: 6300 West 3rd
Los Angeles CA
90036

Date: 1/29/18

Time:

Project Manager: C BLAKE



Legend

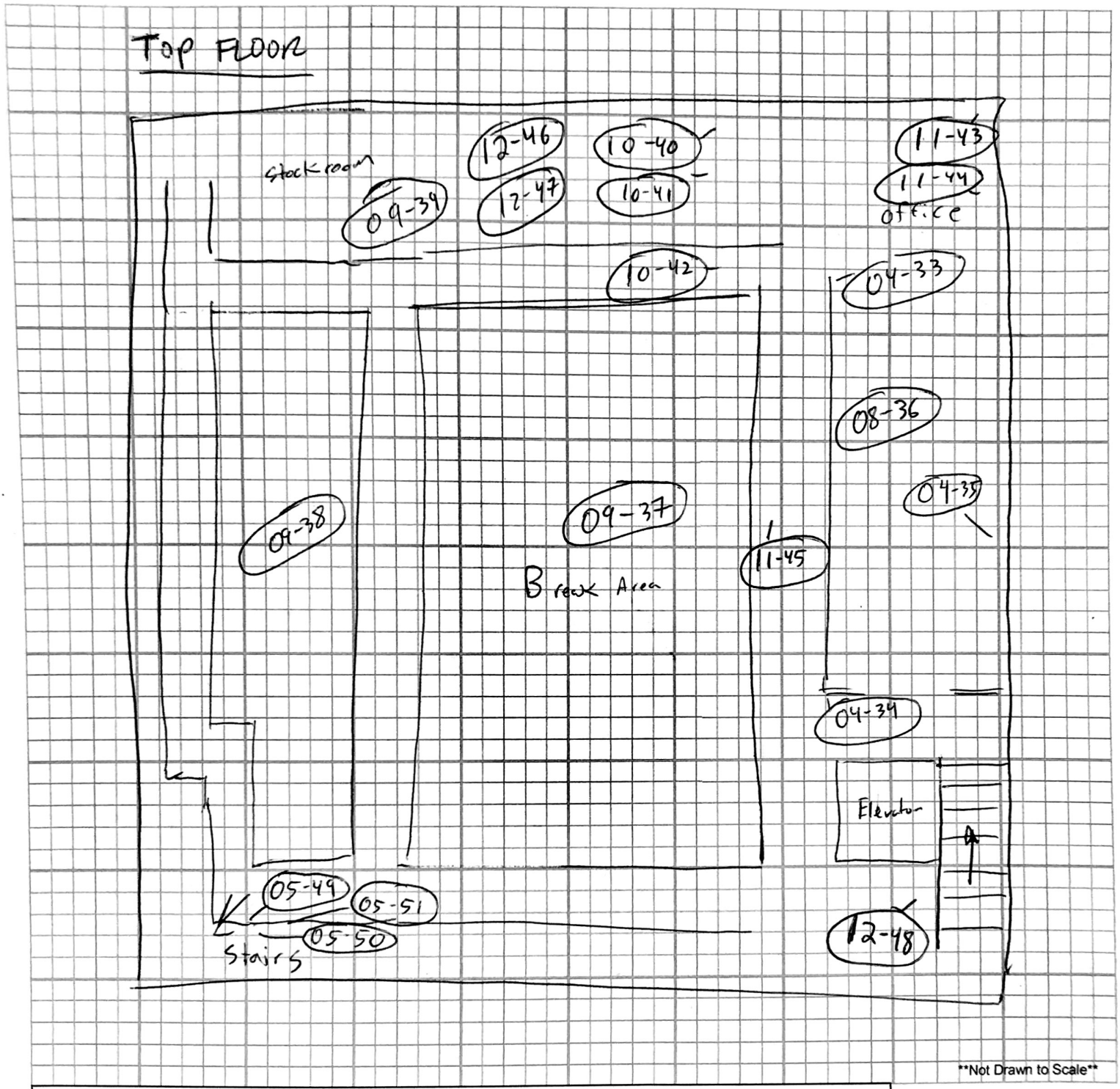
- Affected Area(s)
- Debris Area(s)
- Damaged/Removed Flooring
- Damaged/Removed Ceiling
- Damaged/Removed Walls
- ### - Above-Background/Elevated Moisture
- XXX - Suspect Mold Growth/Water Staining
- Poly-Plastic Sheeting/Containment
- H - HEPA/NAM
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

N
W
E
S

Field Datasheet

Job Name: KMART	Address: 6300 W. 3rd St. Los Angeles 90036	Date: 1/29/18
18-49		Time:
		Project Manager: C BLAKE



Legend

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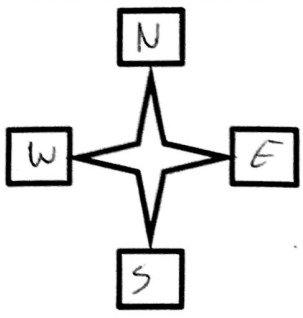
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:



Field Datasheet

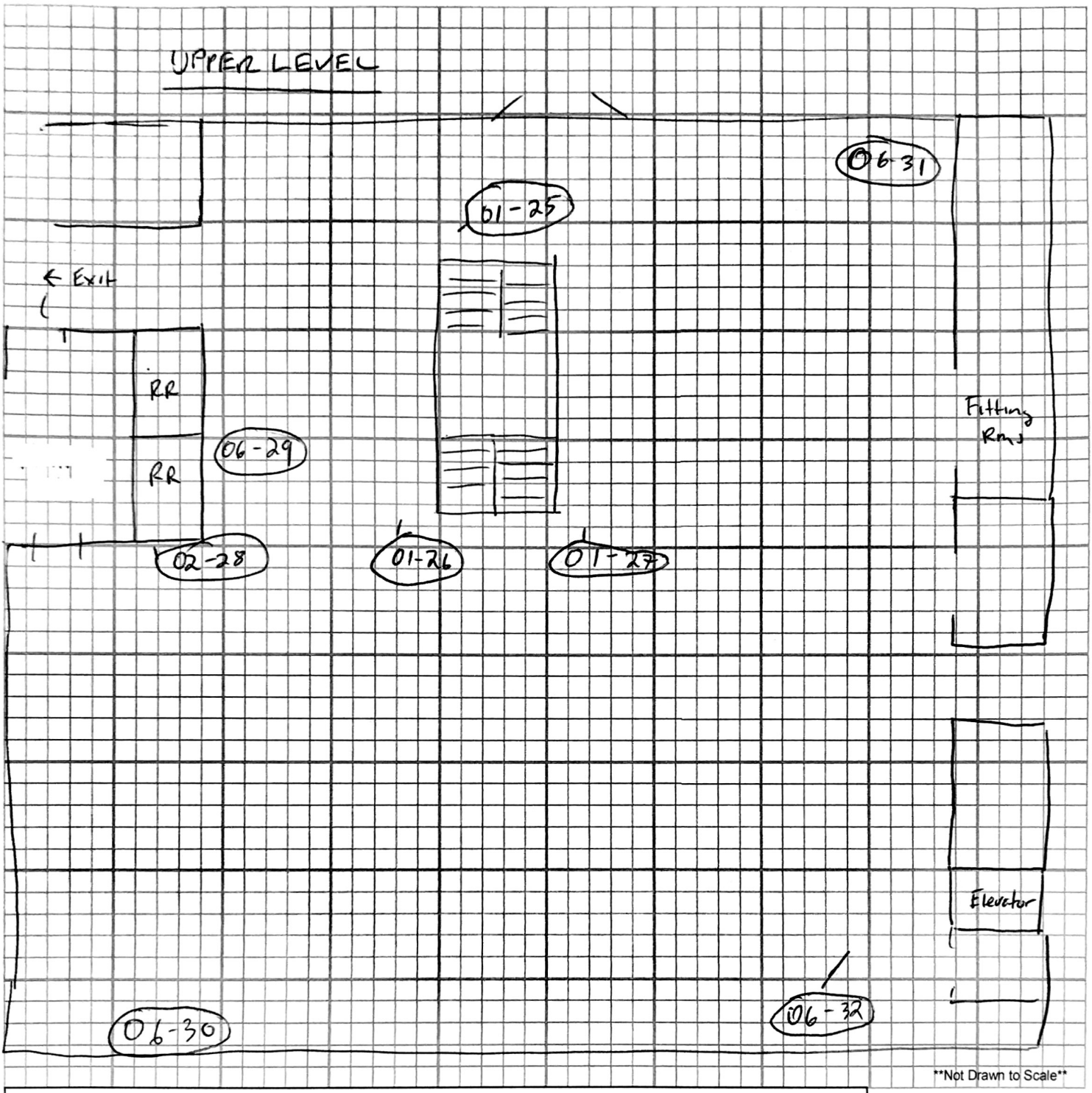
Job Name: KMART

Address: 6300 W. 3rd St. Los Angeles 90036

Date: 1/29/18

Time:

Project Manager: C BLAKE



Legend

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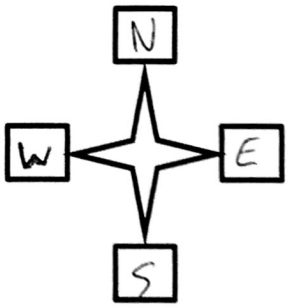
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

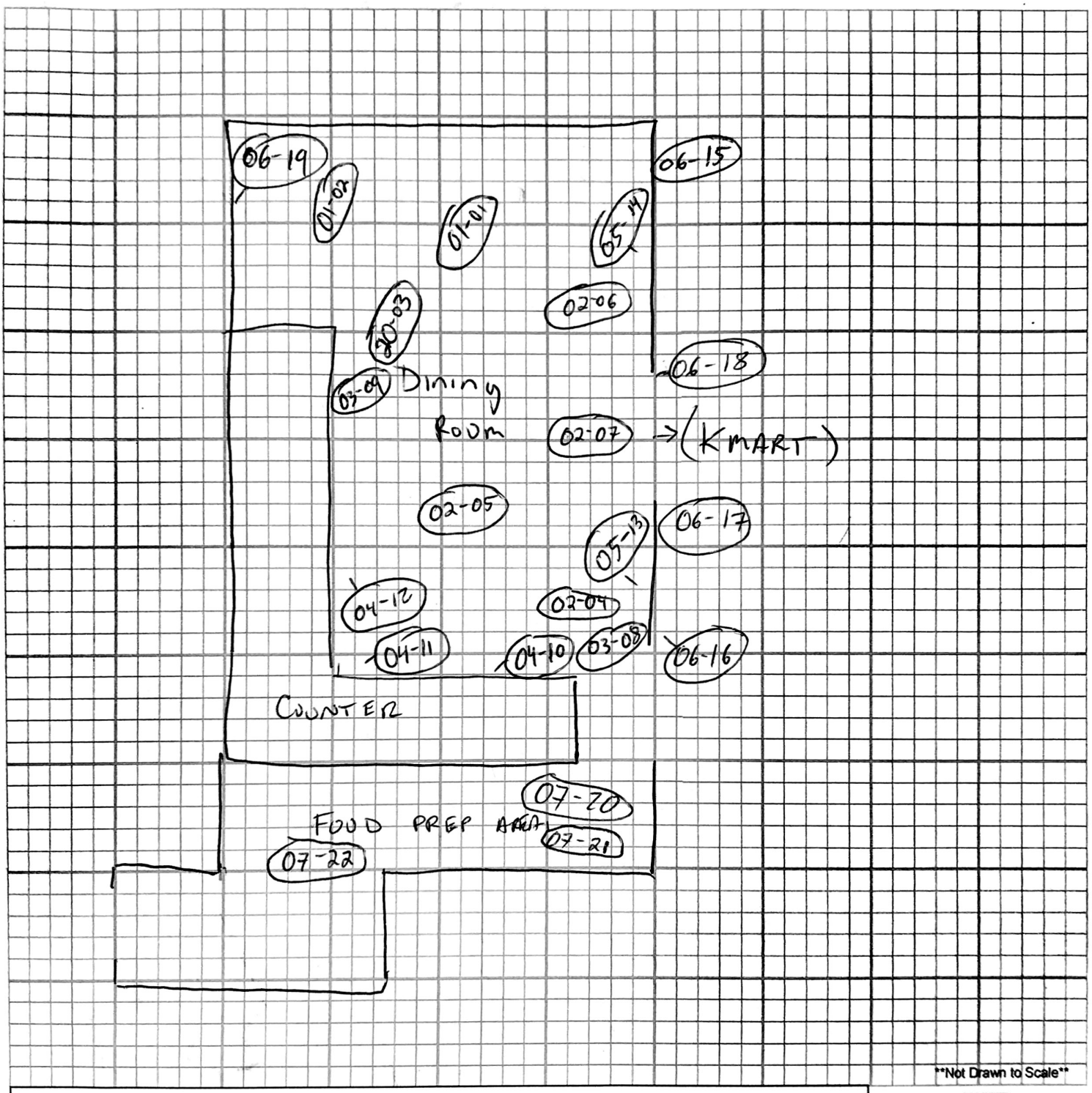


Field Datasheet

Job Name: Little Caesar's
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 1/29/18
Time:
Project Manager: C BLAKE



Legend

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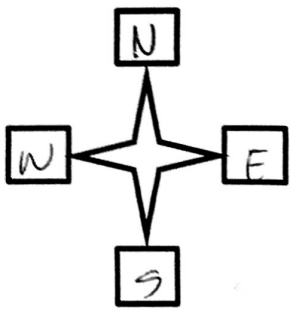
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

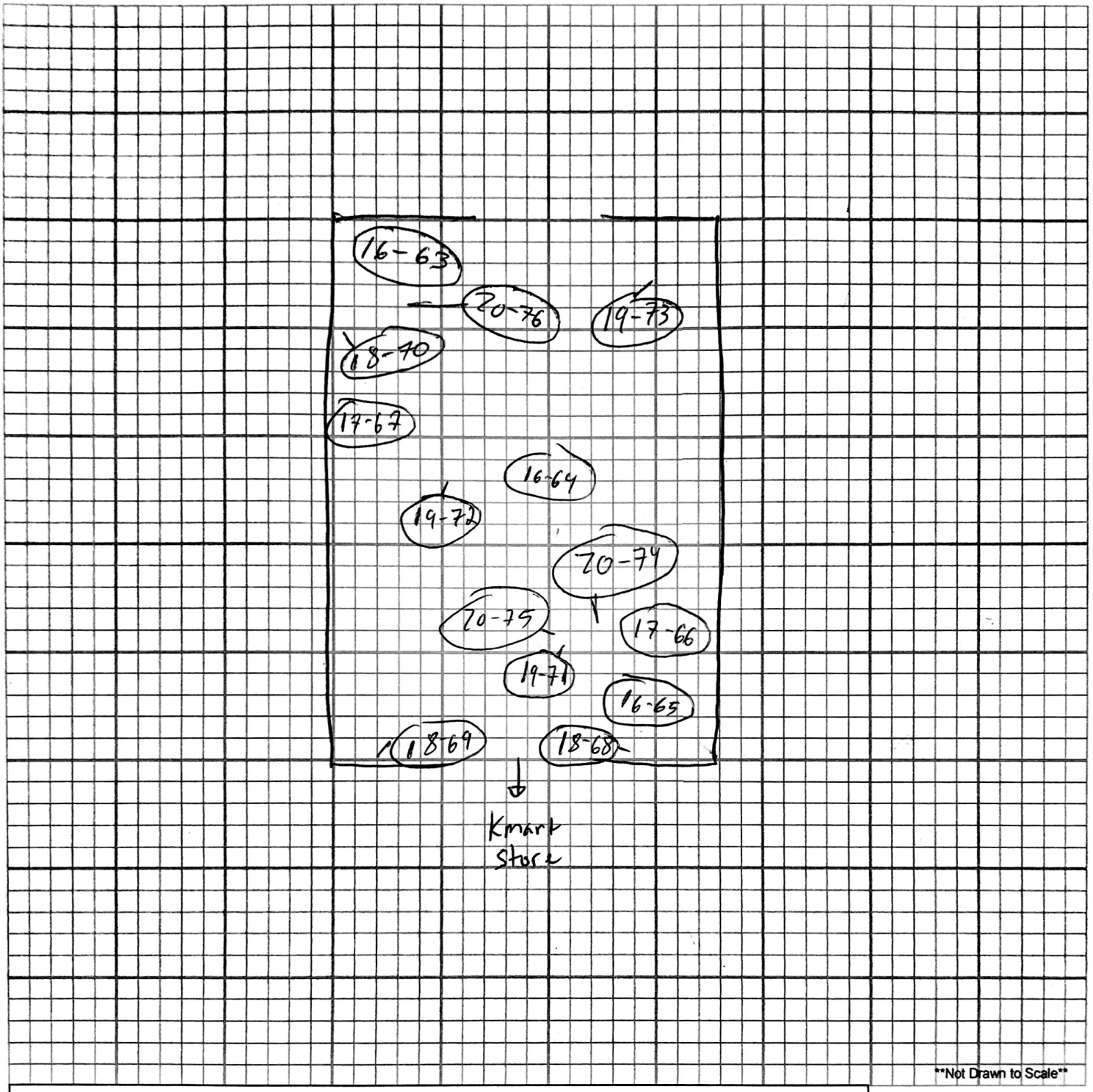


Field Datasheet

Job Name: Kmart Shoes
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 1/30/18
Time:
Project Manager:



Not Drawn to Scale

Legend

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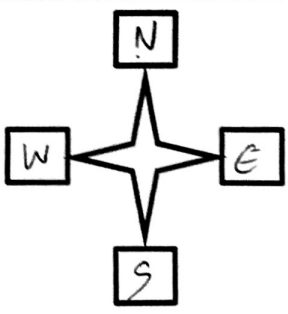
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

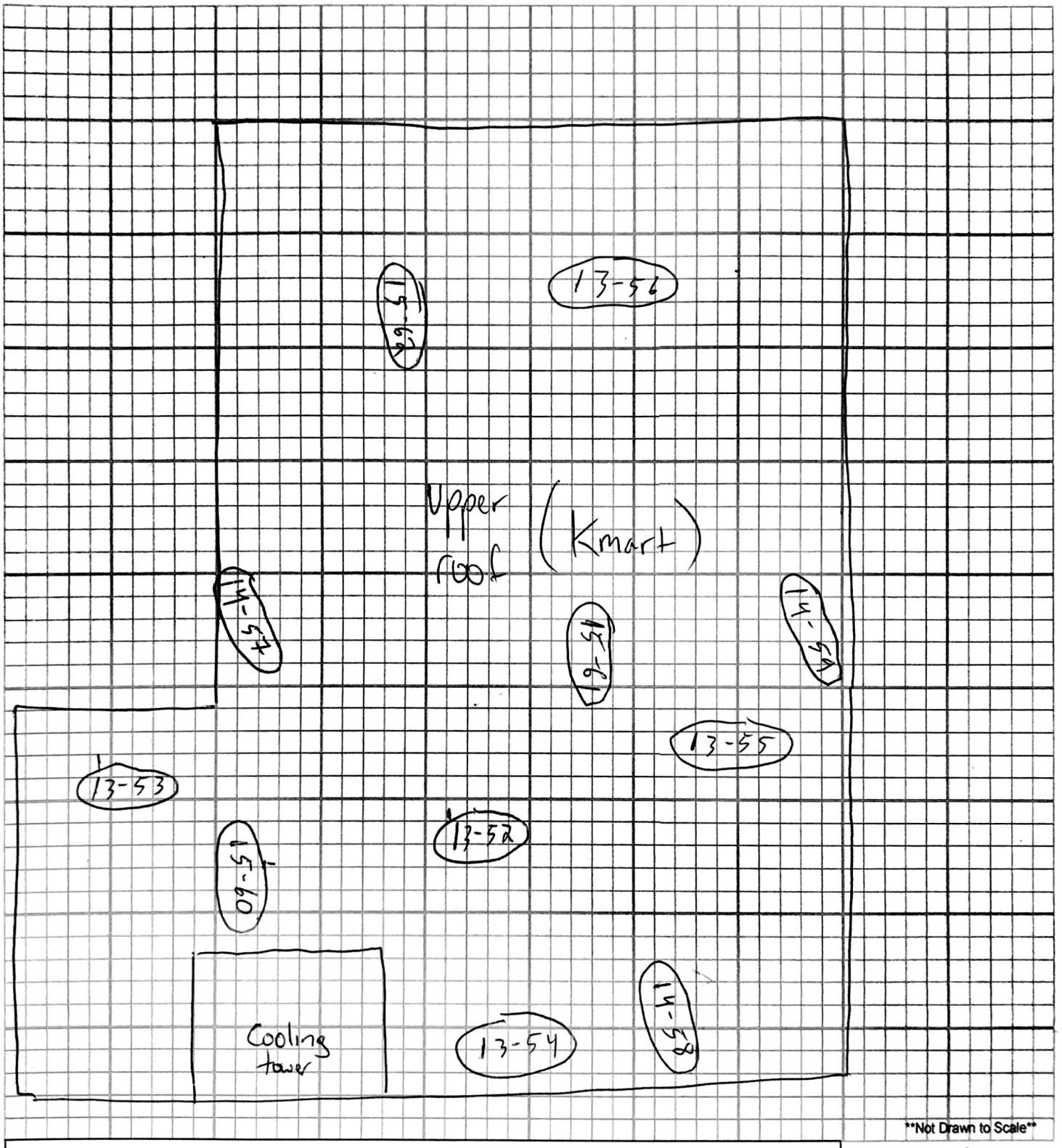


Field Datasheet

Job Name: Kmart
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 1/30/18
Time:
Project Manager: C BLAKE



Legend

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- DC - Decontamination Unit
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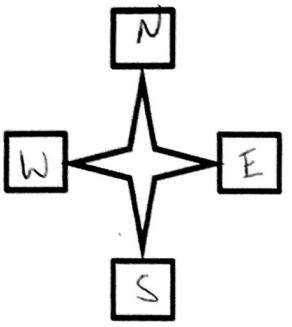
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

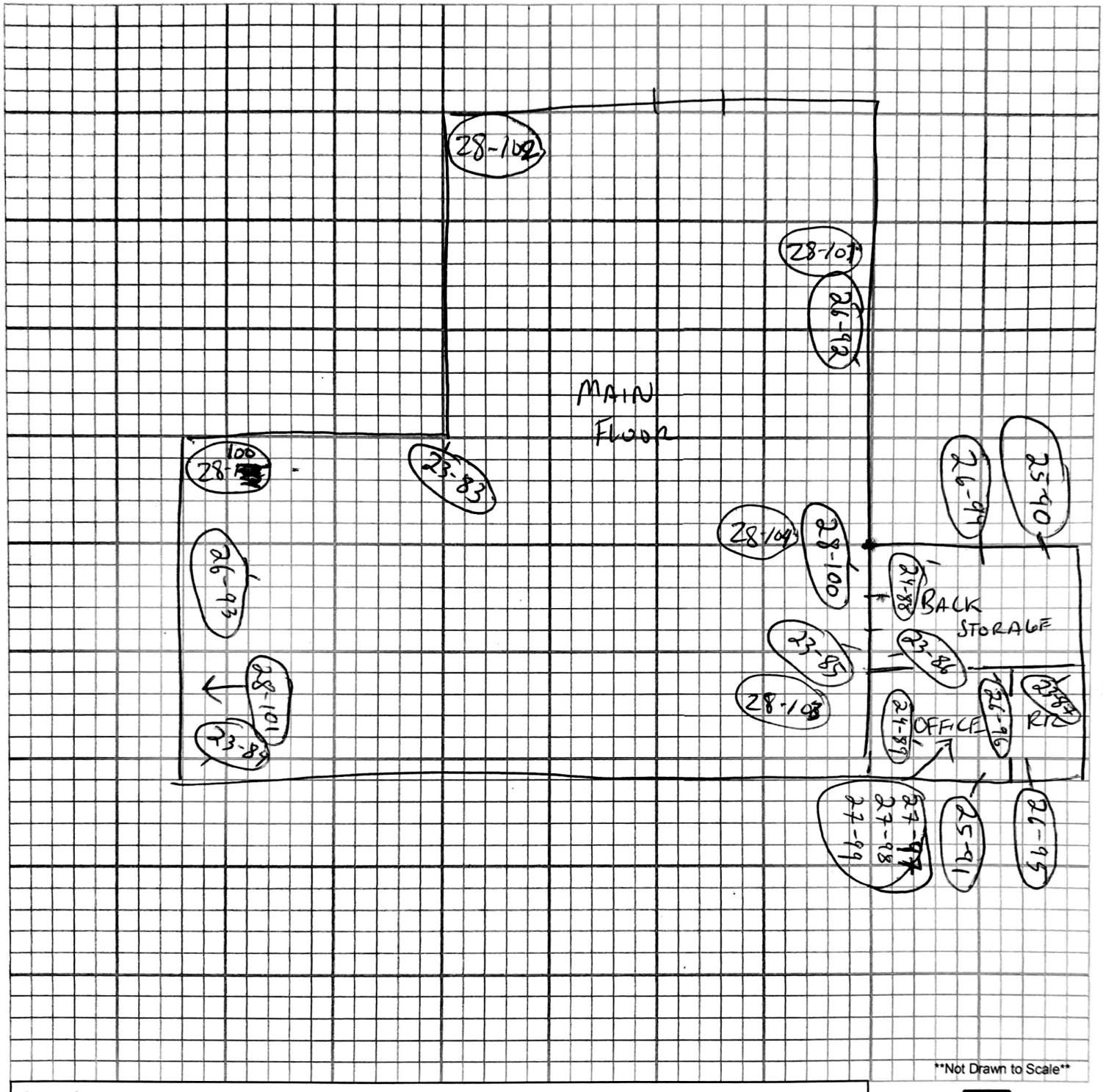


Field Datasheet

Job Name: PAYLESS SHOES
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 1/30/18
Time:
Project Manager: C BLAKE



Legend

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- Damaged/Removed Walls
- ### - Above-Background/Elevated Moisture
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- Poly-Plastic Sheeting/Containment
- H - HEPA/NAM
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

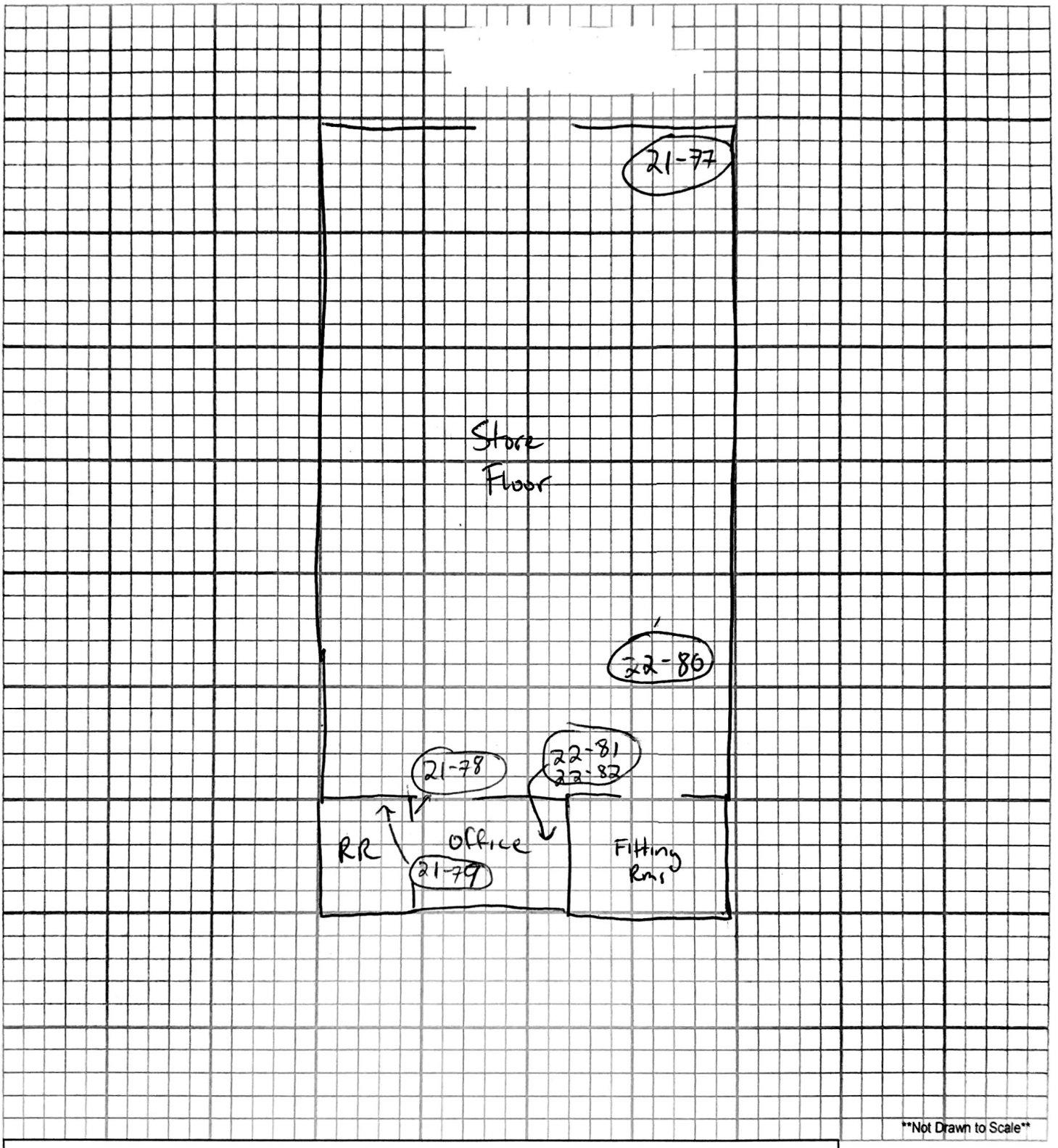
N
W
E
S

Field Datasheet

Job Name: Image Clothing
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 1/30/18
Time:
Project Manager: C BLAKE



Not Drawn to Scale

Legend

- Affected Area(s)
- Debris Area(s)
- Damaged/Removed Flooring
- Damaged/Removed Ceiling
- Damaged/Removed Walls
- ### - Above-Background/Elevated Moisture
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- Poly-Plastic Sheeting/Containment
- H - HEPA/NAM
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

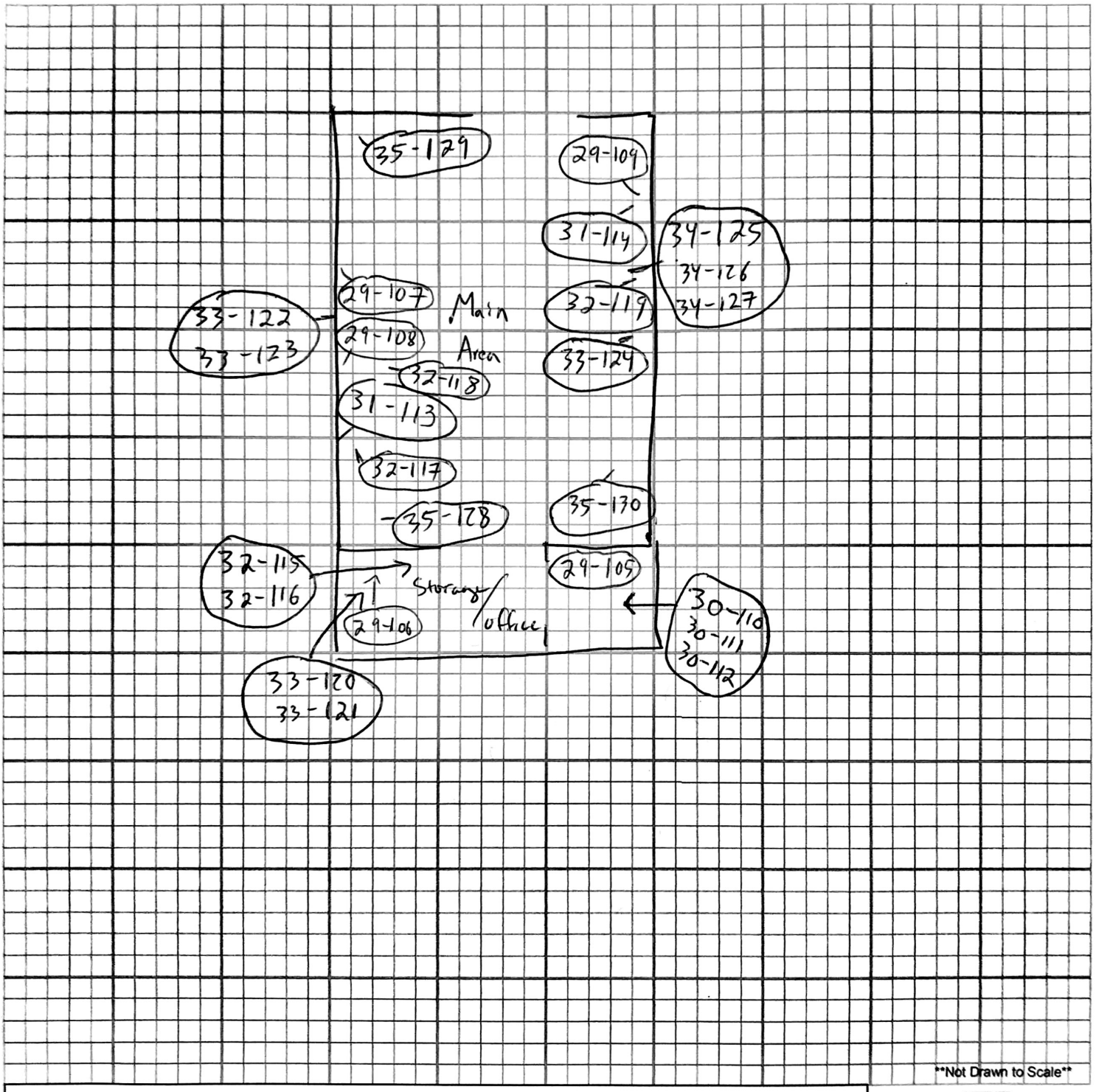
N
W
E
S

Field Datasheet

Job Name: Newstand
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 2/1/18
Time:
Project Manager: C BLAKE



Legend

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- Damaged/Removed Walls
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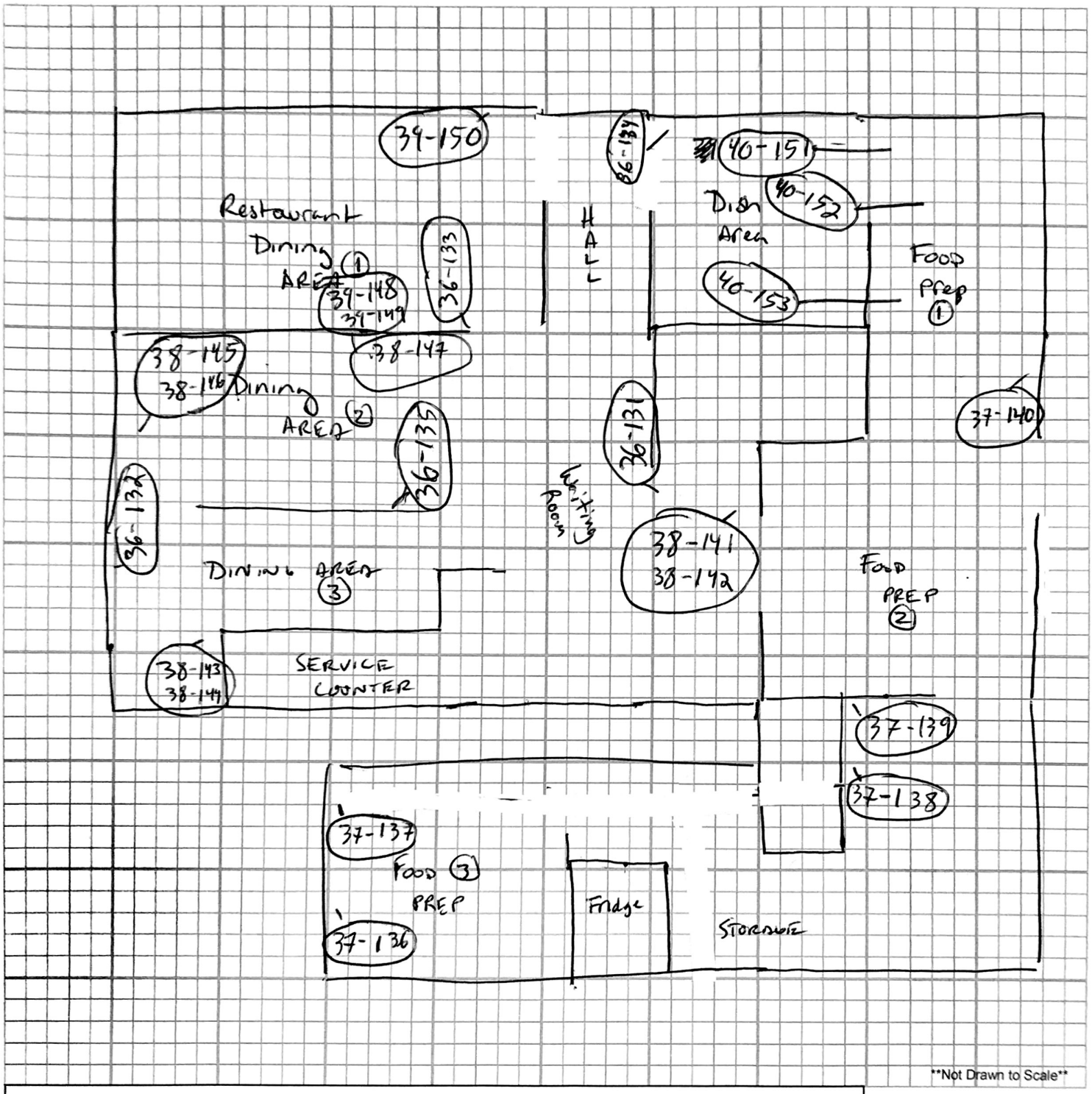
- ~ - Poly-Plastic Sheeting/Containment
- H - HEPA/NAM
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

N
W
E
S

Field Datasheet

Job Name: Andre's Restaurant
Address: 6300 W. 3rd St. Los Angeles 90036
Date: 2/1/18
Time:
Project Manager: C BLAKE



Not Drawn to Scale

Legend

- Affected Area(s)
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- Damaged/Removed Flooring
- Damaged/Removed Ceiling
- Damaged/Removed Walls
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- Poly-Plastic Sheeting/Containment
- H - HEPA/NAM
- DC - Decontamination Unit
- D - Dehumidifier
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

N W E S

Field Datasheet

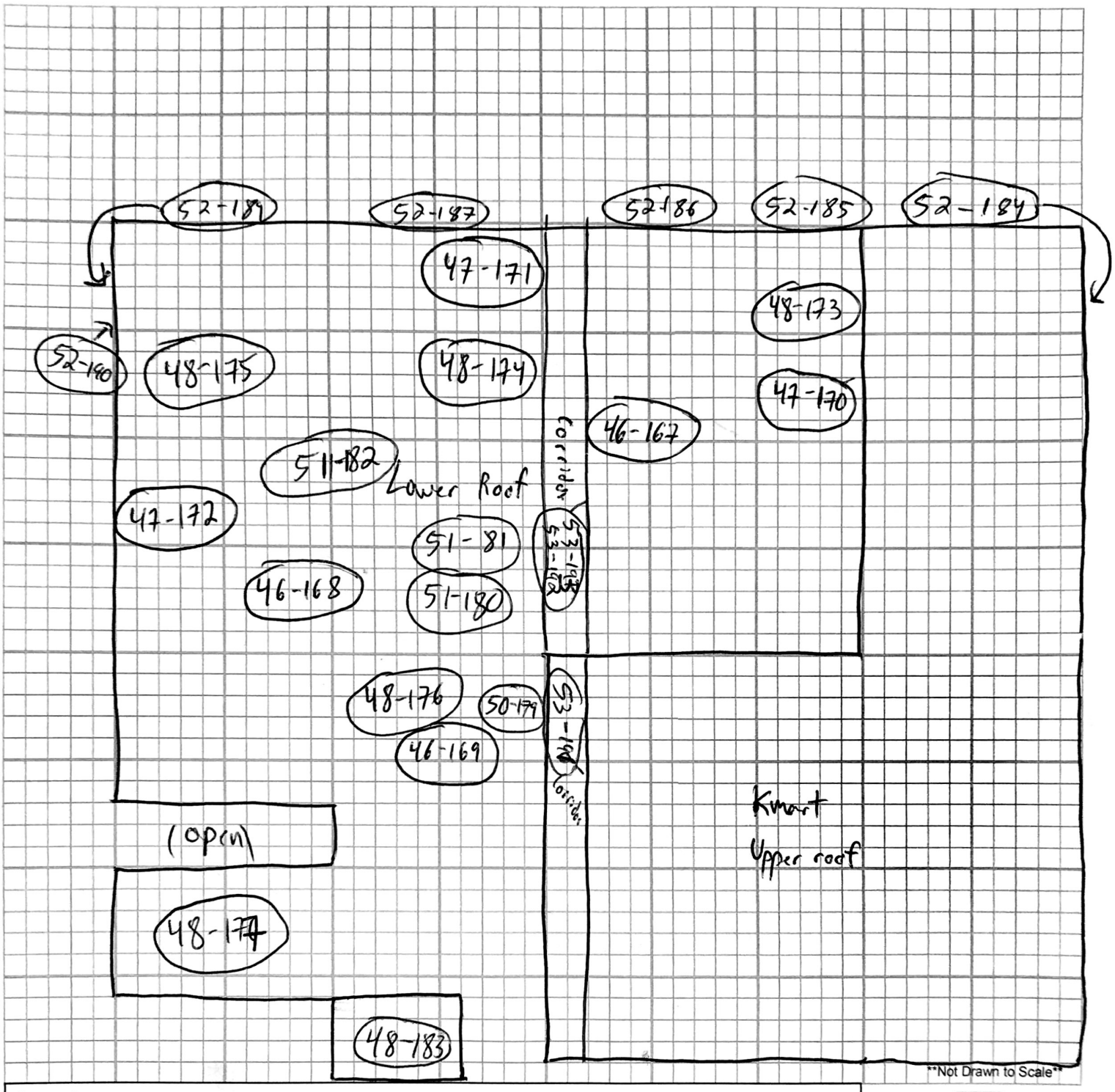
Job Name: 3rd & Fairfax Lower Roof 18-4988

Address: 6300 W. 3rd St. Los Angeles 90036

Date: 2/2/18

Time:

Project Manager: C BLAKE



Legend

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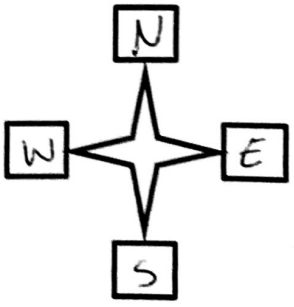
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:

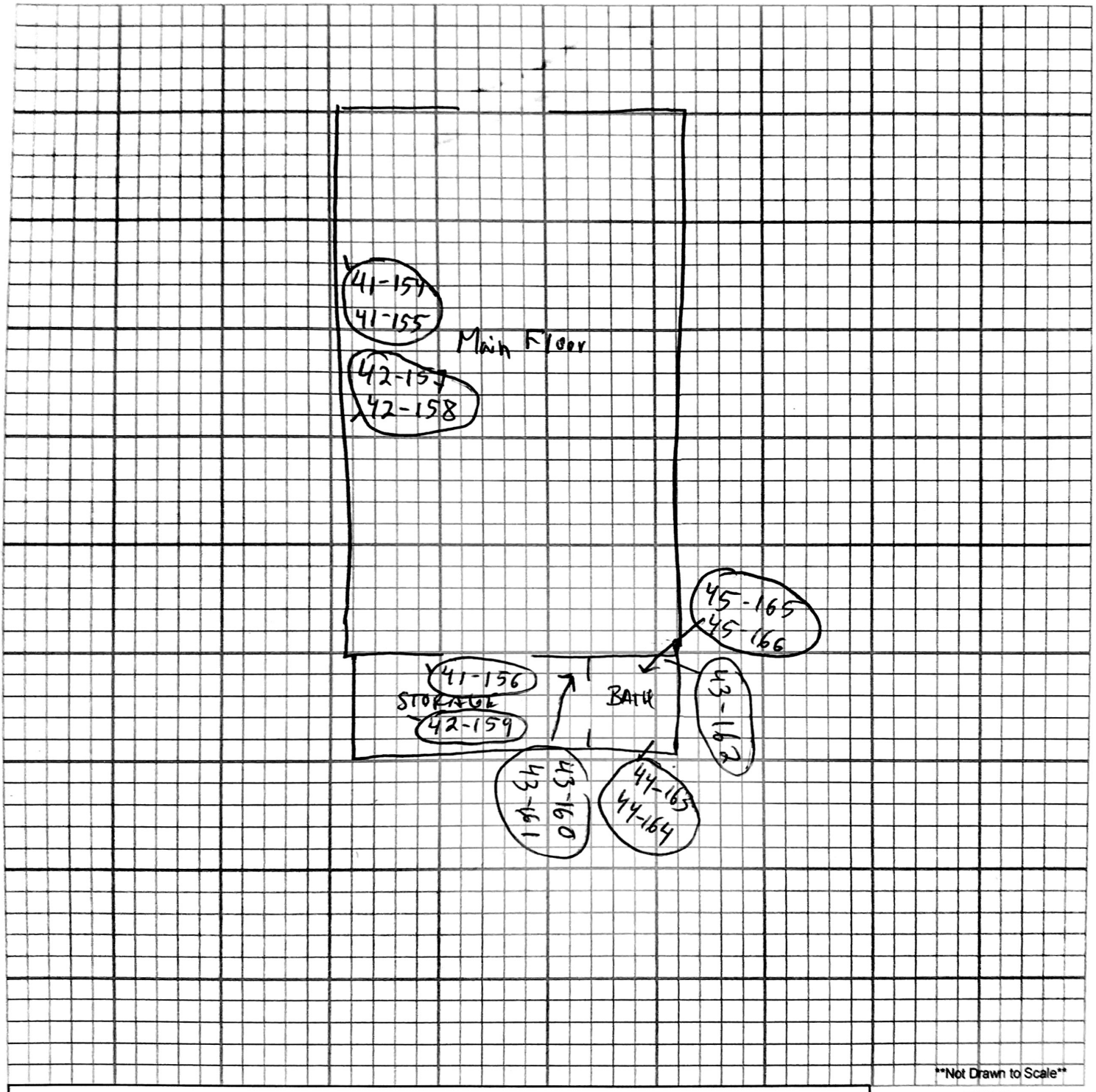


Field Datasheet

Job Name: Wigs Today
18-4988

Address: 6300 W. 3rd St.
Los Angeles
90036

Date: 2/1/18
Time:
Project Manager: C BLAKE



Legend

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- DC - Decontamination Unit
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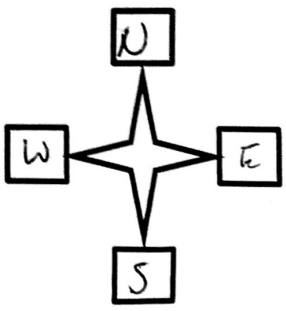
- F - Fan/Blower
- 01-01 - Sample Locations

Add additional items below:



State of California

Division of Occupational Safety and Health

Certified Asbestos Consultant



Christopher A Blake

Name

Certification No. 01-3027

Expires on 11/09/18

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	08/22/2018
	Project Designer	08/22/2018
	Project Monitor	08/22/2018



269528

Christopher A. Blake

ID #: 6283

evista | Environmental Health Systems
Testing · Management · Consulting

HAZARDOUS MATERIAL INVENTORY REPORT

Project Number/Name: 18-4988- 3RD & FAIRFAX
Address: 6300 West 3rd Street
Los Angeles, CA 90036
Inspection Date(s): 01/29/2018 & 02/02/2018

INTRODUCTION

Evista Industries, Inc. (Evista) performed a limited Hazardous Material Inventory at the above-mentioned property. This report provides an explanation of our findings according to our site visit on the referenced date. The materials and items provided in this report are intended only as list of visually observed potential Hazardous materials. These items may require special handling or be subject to specific waste disposal regulations. Items included in the inventory were limited to those that would be remain part of the tenant space. Products, merchandise and tenant contents were included in the inventory. In consideration of the inherent limitations of this inspection, it shall be known that further determination via laboratory analysis or other by other means may be necessary to determine the actual Hazardous Waste status of each item.

The following items provide the general parameters and scope of this report:

- Inspection by: Chris Blake, Environmental Hygienist, HAZWOPER Certified
- Scope of inspection area(s): Kmart, Kmart Shoes, Little Caesars, Image Clothing, Payless Shoes, Wigs Today, Newstand and Andre's Italian Restaurant.

FIELD SURVEY

Evista's technician conducted a visual assessment from all accessible area(s) with the subject spaces referenced above. Suspect materials and items were visually inspected in order to ascertain the potential to contain hazardous or regulated materials.

HAZARDOUS MATERIAL INVENTORY

K-Mart		
3,500 –fluorescent light tubes (possibly mercury containing)	1,130 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	3 – Elevators (possible lubricants / hydraulic oils)
46 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	35 – Battery Powered Emergency Lighting Fixtures (possibly lead/heavy metal containing)	2 – Escalators (possible lubricants / hydraulic oils)
HVAC system (possibly CFC (i.e. Freon) containing)	Electrical transformers in electrical rooms (possible PCB containing)	Electrical Panels (possibly lead/heavy metal containing)

K-Mart Shoes		
176 –fluorescent light tubes (possibly mercury containing)	44 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	Electrical Panels (possibly lead/heavy metal containing)
1 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	2 – Battery Powered Emergency Lighting Fixtures (possibly lead/heavy metal containing)	HVAC system (possibly CFC (i.e. Freon) containing)

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Little Caesars		
52 –fluorescent light tubes (possibly mercury containing)	15 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	12 –fluorescent light bulbs -CFL canister lights (possibly mercury containing)
Electrical Panels (possibly lead/heavy metal containing)	1 – Refrigerator/Freezer (possibly CFC (i.e. Freon) containing)	2 – cooled drinking fountains (possibly CFC (i.e. Freon) containing)
2 – beverage fountains (possibly CFC (i.e. Freon) containing)	2 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	3 – Battery Powered Emergency Lighting Fixtures (possibly lead/heavy metal containing)
1 –HVAC Thermostat (possibly mercury containing)	HVAC system (possibly CFC (i.e. Freon) containing)	1 – Range top Fire Suppression System (possibly Halon containing)

Image Clothing		
39 –fluorescent light tubes (possibly mercury containing)	13 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	1 –HVAC Thermostat (possibly mercury containing)
HVAC system (possibly CFC (i.e. Freon) containing)	Electrical Panels (possibly lead/heavy metal containing)	--

Payless Shoes		
180 –fluorescent light tubes (possibly mercury containing)	90 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	Electrical Panels (possibly lead/heavy metal containing)
3 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	9 – Battery Powered Emergency Lighting Fixtures (possibly lead/heavy metal containing)	1 –HVAC Thermostat (possibly mercury containing)
HVAC system (possibly CFC (i.e. Freon) containing)	--	--

Newstand		
22 –fluorescent light tubes (possibly mercury containing)	6 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	HVAC system (possibly CFC (i.e. Freon) containing)
1 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	1 –HVAC Thermostat (possibly mercury containing)	--

Wigs Today		
41 –fluorescent light bulbs -CFL canister lights (possibly mercury containing)	1 –HVAC Thermostat (possibly mercury containing)	HVAC system (possibly CFC (i.e. Freon) containing)
1 – Battery Powered Exit Sign / Emergency Light (possibly lead/heavy metal containing)	--	--

Andre's Italian Restaurant		
67 –fluorescent light tubes (possibly mercury containing)	45 –fluorescent lighting fixtures with ballasts - (possibly possible PCB containing)	24 –fluorescent light bulbs -CFL canister lights (possibly mercury containing)
Electrical Panels (possibly lead/heavy metal containing)	3 – Refrigerator/Freezer (possibly CFC (i.e. Freon) containing)	Various smaller coolers (possibly CFC (i.e. Freon) containing)

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1 – Range top Fire Suppression System (possibly Halon containing)	4 – Battery Powered Exit Signs (possibly lead/heavy metal containing)	3 – Battery Powered Emergency Lighting Fixtures (possibly lead/heavy metal containing)
1 –HVAC Thermostat (possibly mercury containing)	HVAC system (possibly CFC (i.e. Freon) containing)	--

RECOMMENDATIONS

Evista recommends that all potential hazardous substances within the items / components listed above be further investigated via analytical means or by researching material documentation (if available) to establish if the material is hazardous or is subject to disposal restrictions. If the material is determined to be hazardous, or assumed to be so, then it should be properly removed prior to disturbance by renovation or demolition related activities in accordance with California Code of Regulations Title 22, 66261-66265, Health and Safety Code 25189.5 and all additional pertinent environmental and OSHA regulations.

LIMITATIONS

Evista makes no representation or warranty that any recommendation will result in the complete elimination of the hazardous material(s) any area(s) described in this report. Evista cannot be responsible for changing conditions that may alter relative exposure risk or for future changes in accepted methodology. Evista does not guarantee either expressed or implied that all hazardous material(s) were identified during this survey. Evista was retained only to perform a visual inventory of accessible material(s) within the scope of work. The findings shall only be applicable to the location(s) and at the time that the observations were made. In some cases, hidden or indistinguishable material(s) may not have been visible. Finally, Evista shall not be held responsible for the deficiencies or omissions of others in relation to the services contracted herein.

Sincerely,



Chris Blake
Director of Consulting
CAC No. 01-3027
LRC-I/A, PM, PD No. 6283

Attachments: HAZWOPER Certification

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4030 Birch St # 105 Newport Beach, CA 92660 I 949 783 3353 f

ENVIRONMENTAL TRAINING AND COMPLIANCE

CERTIFICATE OF COMPLETION

8 HOUR REFRESHER

HEALTH & SAFETY TRAINING

Christopher Blake

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PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Town & Country Retail
6310-6360 W. Third Street
Los Angeles, California 90036

May 26, 2017

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6310-6360 W. Third Street
Los Angeles, California 90036



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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis U.S., Inc.
AST	aboveground storage tank
ASTM	ASTM International
bgs	below ground surface
CFR	Code of Federal Regulations
CRECs	controlled recognized environmental conditions
EDR	Environmental Data Resources, Inc.
ESA	Environmental Site Assessment
HRECs	historical recognized environmental conditions
LAFD	Los Angeles Fire Department
LUST	Leaking underground storage tank
PCBs	polychlorinated biphenyls
PCE	perchloroethylene
RECs	recognized environmental conditions
RWQCB	Regional Water Quality Control Board
U.S. EPA	United States Environmental Protection Agency
UST	underground storage tank

EXECUTIVE SUMMARY

Arcadis U.S., Inc. (Arcadis) was retained by Regency Centers Corporation (Regency) to conduct a Phase I Environmental Site Assessment (ESA) of Town & Country Retail located at 6310-6360 W. Third Street in Los Angeles, Los Angeles County, California (the Site). The Site is an existing retail center proposed for redevelopment.

As directed by Regency, the Phase I ESA was performed in accordance with the ASTM International (ASTM) Standard E1527-13, Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process*. The goal of the Phase I ESA was to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), and historical recognized environmental conditions (HRECs) associated with the property in conformance with ASTM E1527-13.

The Phase I ESA included a visual inspection of the property completed on May 17, 2017; observation of adjacent properties; reviews of environmental regulatory agency records, historical documents, and facility records that were available on site; and interviews with personnel represented to be familiar with the Site as indicated elsewhere in the report.

The findings identified by Arcadis are summarized below and discussed in greater detail in the body of the report.

Historical Findings

The Site is located in the former Salt Lake Oil Field and north of the La Brea Tar and Fossil Pits. Two oil wells were drilled onsite circa 1906 and associated features included sumps and crude oil storage tanks. The wells were abandoned circa 1930. In the 1940s, the Site was developed with the Town & Country Market in the central portion of the Site. The Site was developed in its present-day retail configuration in the early 1960s.

The Site is located in a high potential methane zone as defined by the Los Angeles Public Works Department and is currently monitored for methane and is subject to methane ordinances established by the Los Angeles Fire Department and the Los Angeles Building Department.

Based on the Site's historical use for oil field activities, a previous consultant conducted soil testing onsite. Results of soil testing identified crude oil impacted soil in the former oil well locations and in two suspected former oil sump locations. The highest concentrations of contaminants were primarily less than 10 feet below ground surface (bgs); however, in one location contaminants were identified to greater than 20 feet bgs. Low level impacts were also encountered in drainage channel locations but did not extend beyond 3 feet bgs. No impacts were found in former suspected aboveground tank locations. The highest total petroleum hydrocarbon (TPH) concentration detected was 14,000 parts per million (ppm). Concentrations of other contaminants of concern were trace to non-detect, or in the case of metals, consistent with background concentrations. The previous consultant stated that based on the current development of the site, the lack of pathways for human exposure to the contaminated soil limited the human health risk. They also stated the TPH impacts at the Site did not present a significant risk to groundwater beneath the Site. However, they did state that the Regional Water Quality Control Board

(RWQCB) might require remedial activities were the site to be redeveloped. They estimated the cost for excavation of 6,000 cubic yards (9,000 tons) of impacted soil, transport, treatment, and import of clean soil at $324,000 (1998 dollars). They also stated that a methane monitoring and maintenance plan should be developed for the Site and that the estimated cost of annual testing was $25,000 (1998 dollars).

On-Site Findings

The approximate 7.5-acre, irregular-shaped site consists of a retail center and a paved parking lot. Tenants of note include the following:

Kmart

Kmart occupies the east shopping center building. The Kmart building is a two-story building with a basement. The basement and first floors are used for retail sales. The second story consists of retail goods storage areas, former offices, a staff lounge, restrooms, a hazardous materials storage room, and air handler rooms for the building.

Three elevators and a series of escalators provide access to the floors of the building. Two of the elevators are traction-type. A service elevator is hydraulic. An inspection of the elevator equipment rooms did not reveal evidence of spills or releases of hydraulic fluid or unusual odors. The equipment appeared to be in aged condition.

Used automotive batteries are stored in a hazardous materials room located on the second floor of the building. The batteries were observed to be stored on wooden pallets. Poly drums of hazardous materials are also stored in the room. The hazardous materials consist of damaged aerosols such as hair spray, soaps and cleaners, waxes and polishes, makeup, etc. The poly drums are labeled stating their contents. No evidence of releases or staining was observed in the hazardous materials room.

Whole Foods Market

Whole Foods Market occupies the western portion of the shopping center buildings. A refrigeration equipment room, hazardous materials center and offices are located in the rear, southern portion of the building.

The refrigeration equipment room contains approximately 16 compressors and large cooling equipment. The equipment and piping is labeled as containing R-404A refrigerant and Polyol Ester Lubricant. The equipment appeared to be aged but in good operating order. Dark staining was observed on and around the compressors but the staining appeared to be due to small releases over a long period of time and not from a malfunction release.

A hydraulic box compressor is present near the loading dock. The compressor appeared to be in good operating order and no evidence of releases or significant staining was observed on the compactor or in the surrounding area.

A hazardous materials center is located next to the box compressor. The area contained two poly 55-gallon drums and approximately seven poly bins. The containers were labeled as to their contents. The hazardous materials consist of damaged general waste. No evidence of staining or releases was observed on the containers or in the surrounding area.

A truck loading dock is located at the south side of the building. Forklift propane tanks are stored in locked steel cages on the loading dock. Additionally, four steel plates are present in the floor of the loading dock, evidence of a possible clarifier. The Site contact was unaware of a clarifier at the Site.

CVS Pharmacy

The CVS Pharmacy building occupies the western end of the retail buildings. The building is a single-story structure with a basement. The basement is used for retail goods storage.

A hydraulic box compressor is present near the loading dock at the south side of the building. The compressor appeared to be in good operating order and no evidence of releases or significant staining was observed on the compactor or in the surrounding area.

Citibank

Citibank occupies a building located on the northwest corner of the Site. Access to the interior of the bank was not granted for this assessment.

Regulatory Findings

An environmental database report prepared by Environmental Data Resources, Inc. (EDR) was reviewed for local, state, and federal listings for the Site and properties within the site vicinity. Regulatory database lists were reviewed for cases pertaining to leaking underground storage tanks (USTs) and aboveground storage tanks (ASTs), hazardous waste sites, and abandoned sites within the specified radii of standards established by ASTM guidelines. The Site address 6310 W. Third Street is listed under the name Kmart in the HAZNET database. Kmart is listed as generating hazardous waste under manifest from 1995 through 2015. There are over 60 records listed. Typical waste streams included waste oil and mixed oil, unspecified solvent mixture, off-specification, aged or surplus organics, asbestos-containing waste, alkaline solution without metals, latex waste, and acidic liquids. This listing indicates the proper offsite disposal under manifest of hazardous waste and does not in itself indicate an environmental concern for the Site. The Site address 6360 W. Third Street is listed under the name CVS Pharmacy No. 9661 in the RCRA-LQG and ECHO databases. The RCRA database provides a variety of waste codes for wastes generated at the site and indicates there were no violations. The same information is provided in the EPA's ECHO database. The remaining site addresses were not listed in any of the databases searched.

According to EDR's report, numerous properties are listed within the ASTM-search radius due to the Site's location in a dense urban area. However, based on their listing for tracking purposes only, distance from the Site, hydraulic location with respect to groundwater flow, and/or case closure, these off-site properties are unlikely to represent a concern of environmental impairment or a vapor encroachment condition to the Site. However, the following offsite property warrants discussion:

Kings Cleaners, 349 S. Fairfax Avenue, located adjacent to the west of the Site across S. Fairfax Avenue, is listed in the RCRA-SQG, ECHO, CA HAZNET, and CA Drycleaners databases. This address is currently an operating cleaner named Fair Dry Cleaners. It is listed as a generator of hazardous waste from 1995 to 2000; the waste stream is listed as halogenated solvents which includes the dry cleaning solvent perchloroethylene (PCE). No violations are reported. This facility currently uses a non-toxic dry cleaning compound according to signage on the facility. However, the historical long-term use of PCE and

the propensity for dry cleaners to release PCE to the environment represents a potential concern for the Site due to this facility's proximity to the Site. There are no agency records of a release from this facility; however, this can simply mean that no subsurface testing has been conducted. Arcadis observed two monitoring wells near this property, one north and one west of it. However, these wells are associated with a release south of the cleaners and the plume from that release is confined to the west side of S. Fairfax Avenue according to the most recent information from the RWQCB.

It is noted that the EDR database report does not identify any regional groundwater plumes underlying the Site; however, this does not rule out that groundwater beneath the Site and in the surrounding area is not impacted with contaminants of concern due to the fairly shallow depth, reported to be less than 30 feet bgs, and the long-term development of the surrounding area for oil field and commercial uses. The shallow aquifer is not considered a potable water source.

Conclusions

Arcadis has performed a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E1527-13 for Phase I ESAs. This assessment has revealed no evidence of RECs in connection with the Site, with the following exceptions:

- A previous subsurface investigation conducted onsite in 1998 identified soil impacted with petroleum hydrocarbons. The depth of impact was mainly confined to less than 10 feet bgs; however, one location had elevated concentrations of contaminants to greater than 20 feet bgs. The origin of the contamination is attributed to former oil field activities onsite including oil wells and oil sumps.

- The former oil wells onsite do not appear to have been abandoned to current standards and a previous consultant suspected the well in the northeast portion of the Site was leaking and contributing to high methane gas levels in that area.

- The presence of current and historical dry cleaners adjacent west of the Site represents a suspect REC for the Site. If releases of PCE from the dry cleaners impacted soil vapor and groundwater, a vapor intrusion concern may exist for the Site.

No CRECs were identified in connection with the Site, with the following exception:

- The Site's location within a defined methane zone and the detected presence of methane gas onsite represents an environmental concern for the Site and the health and safety of site occupants. However, as long as methane continues to be monitored and vented in accordance with Fire Department requirements, it is considered a CREC for the Site.

The following *de minimis* conditions were identified in connection with the Site:

- It is a possible a clarifier is present at the south end of the Site. Based on the types of current and historical tenant uses it is not anticipated that hazardous materials were routed through the clarifier. It is likely that the clarifier was used for waste cooking grease from onsite restaurants. However, evaluation of the clarifier is warranted if the Site is redeveloped.

- Aging equipment onsite, such as elevators and compressors, indicate the potential for oily releases to the subsurface.

In order to more fully understand the ownership liability of the RECs, Arcadis recommends further investigation and/or discussion with legal counsel.

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) was retained by Regency Centers Corporation (Regency) to conduct a Phase I Environmental Site Assessment (ESA) of Town & Country Retail located at 6310-6360 W. Third Street in Los Angeles, Los Angeles County, California (the Site). The Site is an existing retail center proposed for redevelopment.

1.1 Purpose

Arcadis understands that the purpose for conducting this Phase I ESA is to assess and document the current status of environmental conditions at the Site.

1.2 Detailed Scope of Services

As directed by Regency, the Phase I ESA was conducted in accordance with the ASTM International (ASTM) E1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. The goal of the Phase I ESA was to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), and historical recognized environmental conditions (HRECs) associated with the property in conformance with ASTM E1527-13.

A REC is defined 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 RECs.

A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority and that subjects the property to activity and/or use limitations.

A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed in a manner accepted by the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent), without subjecting the property to any activity and use limitations.

The ASTM practice requires environmental professionals to identify data gaps following reasonable inquiry of site and Regency personnel and Arcadis' search for "reasonably ascertainable" resources. ASTM E1527-13 defines a data gap as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information."

Arcadis' scope of work included:

- On-site inspection of the Site to identify environmental conditions issues as defined above;
- Review of available environmental documents for the Site, including previous site assessments and investigations;
- Interviews with persons represented to be familiar with the operation and history of the Site;

- Review of property history through interviews, aerial photographs, on-line planning portals, and historical mapping (as available);
- Observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact to the Site; and
- Contracting of Environmental Data Resources, Inc. (EDR) to identify sites of concern as required in the regulatory records review section of the ASTM practice for a Phase I ESA.

The Phase I ESA did not include the collection or analysis of soil, air, water, groundwater, transformer/ electrical fluids, hazardous building materials, or other samples, nor did it include a title search or search for environmental liens. This ESA did not include an assessment of the environmental (or health and safety) compliance status of the site operations.

1.3 Significant Assumptions

Arcadis has assumed that the information sources used for this assessment provided accurate information. Evaluations presented in this report are based exclusively on information provided by Regency and site personnel and observations made during the site visit. No invasive field activities were conducted and no laboratory analyses were performed.

The boundaries of the Site were described in documents provided by Regency and by interviews with Regency and site personnel. Arcadis assumed this information was accurate.

1.4 Limitations and Exceptions

The services performed and any opinions expressed by Arcadis in this report are based upon the limits of the assessment described herein. Arcadis has relied upon the accuracy of documents, information, data, and other materials provided or made available by Regency and others. Arcadis has not independently verified such information and assumes no liability for the accuracy or completeness of such information. Arcadis makes no guarantee that site conditions do not exist, or will not exist in the future, that were undetected or that could lead to liability in connection with the Site. Similarly, past and present activities on the Site indicating the potential for the existence of environmental concerns may not have been discovered by Arcadis. Such activities may include those that would indicate the potential for regulated hazardous substances at the Site. Likewise, site conditions or site activities that were outside the scope of the services described above, or changes to site conditions or regulatory requirements may lead to liabilities in connection with the Site that are not identified in this report. Arcadis has reviewed the information obtained in connection with the performance of the services described above, in keeping with existing applicable environmental consulting standards and enforcement practices, but cannot predict what actions any given agency may take or what standards and practices may apply in the future.

Where access to portions of the Site or to structures on the Site was unavailable or limited, Arcadis renders no opinion and accepts no responsibility for assessment of the condition of these portions of the Site, including specifically, but not limited to, the presence of hazardous substances or petroleum products at these locations. In addition, Arcadis renders no opinion concerning the presence or absence of hazardous substances or petroleum products where direct observation of any part of the Site, or structure on the Site, is limited by physical obstructions.

The conclusions and observations are based upon limited data and professional opinions, and the assessment is performed on a particular date. Site conditions and activities may change after that date. Therefore, the risk of undiscovered environmental impairment of the Site cannot be ruled out. Arcadis does not make any representations or warranties regarding the condition or value of the Site, regardless of the results of the assessment presented in this report.

Arcadis makes no guarantees, certifications, warranties, or representations of any kind whatsoever, whether expressed or implied, regarding this Phase I ESA, the condition of the Site, or the liabilities associated with the Site.

1.5 Special Terms and Conditions

No special terms and conditions were imposed on this Phase I ESA.

1.6 Reliance

It is understood that this report will be prepared for the sole use of Regency, and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of Arcadis. Use of this report by any other party shall be at such party's sole risk and liability.

1.7 Deviations

No deviations from the referenced ASTM Standard occurred.

1.8 Additional Services

No additional services beyond those outlined in ASTM E1527-13 were conducted as part of the assessment.

2 SITE LOCATION / LAND USE

2.1 Site Location

The irregular-shaped, approximate 7.5-acre site is located at the southeast corner of the intersection of W. Third Street and S. Fairfax Avenue in Los Angeles, California. The Site is located approximately 2.5-miles north of the 10 Freeway. The Site Location Map and Site Plan are presented as **Figures 1 and 2**.

2.2 Site and Vicinity Characteristics

The Site is a retail shopping center constructed in the 1960s. An asphalt-paved parking lot, a small locksmith shop, and stand-alone bank building cover the north end of the Site, and approximately 252,645 square feet of retail-use buildings cover the south end of the Site. An alleyway for store deliveries is present along the south boundary of the Site. The site vicinity is comprised of commercial, retail and residential uses. Photographs of the Site and surrounding areas were taken to document current conditions and are included in **Appendix A**.

2.3 Current Use of the Property

The current use of the site is a retail shopping center. The shopping center is anchored by Kmart located on the east and Whole Foods Market and CVS Pharmacy on the west. The remaining retail stores consist of Payless Shoes, Little Caesars Pizza, Image Clothing, Kmart Shoes, Wigs Today, News Stand, and Andres Restaurant. A small locksmith shop and a small tobacco shop are located in the parking lot. See **Appendix E** for a list of the current onsite tenants.

A stand-alone building occupied by Citibank is located in the northwest corner of the Site. Access to the interior of the Citibank building was not granted by Citibank for this assessment.

2.4 Description of Structures, Roads, and Other Improvements on the Site

The Site is improved with a retail shopping center constructed in the early 1960s. The retail buildings are located on the south side of the Site. The north portion of the Site is occupied by an asphalt-paved parking lot, a bank building, and a small locksmith shop.

Kmart occupies the east portion of the retail buildings. The Kmart building is a two-story building with a basement. The basement and first floors are used for retail sales. The second story contains retail goods storage areas, former offices, a staff lounge, restrooms, a hazardous materials storage room, and air handler rooms for the building.

Single-story retail stores and a restaurant occupy the central portion of the shopping center buildings.

Whole Foods Market and CVS Pharmacy occupy the western portion of the shopping center buildings. These buildings are of single-story construction; however, the CVS Pharmacy building contains a below-grade basement for retail goods storage.

The buildings are of wood, steel, and concrete construction, with some brick support walls. Interior building materials consist of ceramic floor tiles, wood laminate flooring, vinyl floor tiles, carpeting, drywall, plaster, suspended ceiling tiles, and glue-on ceiling tiles. The building materials were observed to be in conditions varying from good to significantly damaged. Most of the building materials are in aged condition. Suspect asbestos-containing materials (ACMs) were observed in the Kmart building and include 12”x12” and 9”x9” vinyl floor tiles, black mastic, carpet mastic, pipe insulation, and glue-on ceiling tiles. There were some identifying labels on the doors indicating a prior ACM inspection. Other onsite buildings may also contain ACMs.

A small access alley provides delivery access to the buildings and is located along the southern boundary of the Site. Customer access to the Site is via Fairfax Avenue to the west, West 3rd Street to the north, and Ogden Drive to the east.

2.5 Current Uses of the Adjoining Properties

Land uses surrounding the Site predominately consist of commercial and residential properties. The adjoining properties and land uses include:

- North: W. Third Street followed by the Los Angeles Farmers Market.
- East: S. Ogden Drive followed by a Ross retail store
- South: Hancock Park elementary school.
- West: S. Fairfax Avenue followed by commercial uses including a dry cleaner.

Based on visual observations, current activities at the adjacent properties do not appear to be of environmental concern to the Site.

3 USER-PROVIDED INFORMATION

Arcadis was not provided with an ASTM User Questionnaire.

3.1 Environmental Liens

Arcadis' review of regulatory records did not identify environmental liens recorded for the Site.

3.2 Activity and Use Limitations

Arcadis' review of regulatory records did not identify activity and use limitations, 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.

3.3 Specialized Knowledge

Regency does not have specialized knowledge or experience related to the property other than as provided in a prior report (see Section 4.1).

3.4 Valuation Reduction for Environmental Issues

Regency did not comment on whether the purchase price reasonably reflects the fair market value of the property.

3.5 Commonly Known or Reasonably Ascertainable Information

Regency does not have commonly known or reasonably ascertainable information other than as provided in a prior report.

3.6 Obvious Contamination Presence or Likely Presence

Regency stated that the Site is monitored for methane gas due to its location within a defined methane zone.

3.7 Owner, Property Manager, and Occupant Information

The Site is owned by Third & Fairfax, LLC and managed by The ARBA Group. According to a prior report, the Site is identified as Assessor's Parcel Numbers 5509-018-003, -004, -005, -009, -010, -012, and -013. Site occupants were identified in Section 2.3.

3.8 Reason for Performing Phase I ESA

The reason for performing the Phase I ESA was to evaluate current environmental conditions at the Site.

4 SITE HISTORY

Historical information obtained by Arcadis from EDR during this Phase I ESA is summarized in **Table 1**.

Table 1 Historical Information Reviewed

Source	Date	Information Obtained
Sanborn® Fire Insurance Maps (copies provided in **Appendix B**)	1950, 1969	The 1950 map depicts the Site improved with the Town & Country Market, identified as "numerous stores and booths." The stores and booths are all clustered in the center of the Site. Along the southeast property line there are two small storage structures, a service yard and an incinerator. To the north is the farmers market and to the northwest of the stalls there is a small structure labelled gas & oil. The northwest corner of the intersection of W. Third Street and S. Fairfax Avenue, diagonal to the Site, is also identified as "gas & oils." Commercial buildings are depicted to the west, Hancock Park School to the south, and undeveloped land to the east. The 1969 map depicts the Site in its current configuration with buildings in the southern half of the site, a parking lot in the northern half, and a small structure in the northwest corner. The surrounding area is fairly similar to the 1950 map; however, a grocery warehouse is now depicted east of the Site across Ogden Drive. No obvious concerns to the Site were depicted on the maps reviewed.
Topographic Maps (copies provided in **Appendix B**)	1894, 1896, 1898, 1900, 1902, 1920, 1921, 1924, 1926, 1950/53, 1966, 1972, 1981, 1991/94, and 2012	The 1894 through 1902 maps depict the Site as undeveloped land south of the present-day W. Third Street and in between the branches of two blue-line streams. The surrounding area is depicted as mostly undeveloped land other than several roads and scattered residences. The 1920 and 1921 maps depict the Site at the southeast corner of the present-day W. Third Street and S. Fairfax Avenue. What appears to be a small road is present in the northwest corner of the Site. The Site is located within the Salt Lake Oil Fields and oil wells are shown onsite and in the surrounding area. On the 1924 and 1926 maps, the small road onsite is no longer shown; however, oil wells are still depicted onsite. The surrounding oil field is now identified as the La Brea Oil Field. The area outside of the oil field is depicted with city streets. Fossil pits are identified southeast of the Site north of Wilshire Boulevard. The 1950/53 map shows what the Sanborn map from the same time period described as the Town & Country Market in the center of the Site. A school is shown south of the Site and what is likely the Farmers Market north of the Site. The majority of the surrounding area is shaded red indicating a developed urban area. The 1966 through 1991/94 maps depict the Site in its current configuration. The surrounding area is a well-developed urban area. The 2012 map does not depict features onsite or in the surrounding area. No features were depicted on or off the Site on the maps reviewed that would indicate an environmental concern for the Site except for historic oil field uses, which are discussed later in this report.

Source	Date	Information Obtained
Aerial Photographs (copies provided in **Appendix B**)	1923, 1928, 1938, 1948, 1952, 1964, 1972, 1977, 1983, 1989, 1990, 1994, 2002, 2005, 2009, 2010, and 2012. Also Google Earth 2016.	In the 1923 photograph, the Site is covered with oil field related features including access roads, small structures, storage tanks, and possible oil wells (unclear due to the scale of the photograph). The surrounding area is an oil field with many oil field related features. In the 1928 photograph, the site and a portion of the surrounding area remain an oil field; however, residential neighborhoods are now visible in the surrounding area as well. In the 1938 photograph, oil field related activities onsite and in the surrounding area appear to have ceased or to have been significantly reduced in scope. There does appear to be at least one storage tank onsite in the northeast corner and a possible sump in the southwest corner. More urban development is visible in the surrounding area. The 1948 and 1952 photograph show the center of the Site developed with the Town & Country Market. The market is surrounded by a paved parking area. North of the Site is the L.A. farmers market, northeast is a drive-in movie theatre, east is undeveloped land, south is a school, and west is commercial and residential. The 1964 through the 2012 photographs show the Site developed in its general present-day configuration. The surrounding area also remains pretty stable over this time period. Land to the east is first developed with a commercial use on the 1964 photograph, and the drive-in movie theatre is gone by 2002 and has been replaced with commercial buildings. The 2016 aerial image shows the Site and surrounding area in their present-day configurations. No features were depicted on or off the Site on the photographs reviewed that would indicate an environmental concern for the Site except for historical oil field uses which are discussed later in this report.
City Directory Abstract (copy provided in **Appendix B**)	1920 - 2014	The EDR City Directory Abstract Report covers the years from 1920 to 2014 in approximately 5-year intervals. 6310 W. Third is first listed in 1933 as a private individual's name identified as an oil worker. From 1967 to 1976 it is listed as Britts Department Store, and from 1981 to 2014 as K Mart. 6320 W. Third is listed from 1967 to 1990 as several different shoe stores. 6330 W. Third is listed from 1967 to 2006 as a jewelry, handbag and shoe store, and in 2010 as a shoe store and wireless phone store. 6340 W. Third is listed in 1967 and 1971 as a jewelry and handbag store, in 1976 to 1981 as a travel agent, in 1986 and 1990 as Leeds Imports, and in 2006 as Annas Linens. 6350 W. Third is listed as a grocery store from 1976 to 1990 and from 2006 to 2014 as Whole Foods Market. 6360 W. Third is listed as a drug store from 1967 to 2014 (CVS Pharmacy in 2014). Prior and current tenant types do no indicate an obvious concern for the Site. There were no listings for dry cleaners or gas stations in the city directory listings.

4.1 Previous Environmental Investigations

Arcadis was provided with the following environmental report for the Site:

EBI Consulting. 2004. Phase I Environmental Site Assessment Report, Town & Country Retail, 6310-6360 W. Third Street, Los Angeles, CA. August 13.

According to EBI, the Site is multi-tenant retail center consisting of three, one-, two- and three-story buildings totaling 228,390 square feet and constructed in 1961. At the time of EBI's inspection, they noted that the stand-alone bank building and the buildings occupied by Savon and Kmart had basements. No chemical storage was observed onsite other than photo processing chemicals in Savon and Kmart and typical janitorial compounds. Waste cooking grease from several restaurants was observed to be stored in exterior bins. EBI stated that the current use of the site did not represent an environmental concern for the Site. However, based on the date(s) of building construction they noted the potential for asbestos-containing materials (ACMs) to be present onsite.

EBI stated that the Site is located in the Salt Lake Oil Field and north of the La Brea Tar and Fossil Pits, which are sources of methane gas. Reportedly, accumulation of methane gas caused an explosion at the east adjacent Ross retail store in 1985. As a result of the explosion, the Los Angeles City Fire Department (LAFD) issued a methane ordinance requiring methane monitoring and mitigation measures in the "high potential methane zone" centered on the Salt Lake Oil Field. As the Site is located within this zone, a methane mitigation and monitoring system was implemented on the Site and has been in effect since 1990. EBI stated that the onsite methane gas monitoring system includes 12 street probes, seven gas vents and 10 parking lot gas vents, six wells, and three onsite gas probes. EBI stated that the site, in accordance with LAFD requirements, conducts semi-weekly methane gas monitoring and gas pressure monitoring and reporting. EBI reviewed a gas monitoring report for the Site dated June 2004 and methane gas concentrations ranged from non-detect to 88% of the lower explosive limit (LEL). The highest gas concentrations were reported to be in the eastern portion of the parking lot. EBI contacted a representative of the LAFD Environmental Unit, which has local agency oversight of methane compliance. The LAFD representative stated that the "current concentrations of methane gas reported in the semi-weekly methane monitoring reports are not a concern to the Fire Department at this time."

EBI also contacted a representative of Lofy Engineering, the firm that conducted the semi-weekly onsite methane monitoring. The representative stated that two gas venting mitigation wells were installed onsite in 1991/1992 after "mud geysers and gas buildup occurred at the subject property and in the local vicinity." In 1997, the wells were abandoned at the direction of the property management firm due to cost; however, the representative stated that the Site did not violate any local oversight agency requirements and that the Site was still in compliance with local, state and federal regulations as long as the twice-weekly monitoring and onsite monitoring alarm systems were maintained.

EBI stated that two former oil wells were located on site, one in the northwest portion of the Site and one in the northeast portion of the Site. They stated the wells were abandoned in the 1930s. EBI referenced a prior geophysical survey conducted at the Site that apparently located one well but not the second one. EBI discussed the wells with a representative of the Division of Oil, Gas & Geothermal Resources (DOGGR) who stated that a "construction site review for the reported abandoned wells by DOGGR would be required if the subject property proposed further development."

EBI was provided with prior reports for the Site including a Phase I and II report prepared by California Environmental (CE) in 1998. Based on the site's prior use for oil field related activities and its location within a methane zone, CE conducted a Phase II investigation which consisted of a geophysical survey to locate the two former onsite oil wells and advancing six soil borings to depths of 8- and 20-feet bgs. 18

soil samples were collected from the borings and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-VOCs (SVOCs), and metals. The geophysical survey identified an anomaly in the northwest corner of the Site that was interpreted to be oil well #102. No anomalies suspected of being a well were detected in the northeast corner of the Site where oil well #99 was reported to be located. CE stated that the highest rate of methane gas venting was in the northeast portion of the Site. They stated “It is the opinion of CE that the methane gas problem in this area is at least partially due to a leaking well. If the well can be located and re-abandoned the methane problem will probably be reduced or eliminated.”

Results of soil testing identified crude oil impacted soil in the former oil well locations and in two suspected former oil sump locations. The highest concentrations of contaminants were primarily less than 10 feet below ground surface (bgs); however, in one location contaminants were identified to greater than 20 feet bgs. Low level impacts were also encountered in drainage channel locations but did not extend beyond 3 feet bgs. No impacts were found in former suspected aboveground tank locations. The highest TPH concentration detected was 14,000 parts per million (ppm). Concentrations of VOCs and SVOCs were trace to non-detect. Detections of metals were consistent with background concentrations. CE stated that based on the current development of the site, the lack of pathways for human exposure to the contaminated soil limited the human health risk. They also stated the petroleum impacts at the Site did not present a significant risk to groundwater beneath the Site. However, they did state that the Regional Water Quality Control Board (RWQCB) might require remedial activities were the site to be redeveloped. They estimated the cost for excavation of 6,000 cubic yards (9,000 tons) of impacted soil, transport, treatment, and import of clean soil at $324,000 (1998 dollars). CE also stated that a methane monitoring and maintenance plan should be developed for the Site and that the estimated cost of annual testing is $25,000 (1998 dollars).

The EBI report also reviewed an asbestos inspection report for the Whole Foods Market and an asbestos abatement report for that space.

EBI also reviewed weekly methane monitoring reports prepared by Lofy Engineering in 2004. The reports summarize probe testing of detectable levels of methane in 11 out of 12 probes at the Site. Monitoring of exterior gas vents was also performed, and the reports note that there are gas detection alarm systems in place at the Site. The reports noted that at one time, there were two onsite vent wells identified as Kerbrat #2 and Fukuda #3. The wells had been a pathway for venting the methane gas in the area and reducing ambient pressure in the soil. The wells had served as key gas relief wells, which had prevented any gas building up in the Kmart basement since their activation in 1992. The discharge water from the wells was directed to a 5,000-gallon onsite aboveground storage tank located near Kerbrat #2. During its existence, the tank had been drained to the storm sewer system seven times prior to the tank’s removal in 1997. The well venting system was discontinued and the relief wells were abandoned by the property management company in 1997 as the system was too expensive to operate. The Lofy reports also noted the continuous pumping of an offsite well (Anthony #2) between Ogden Drive and the Ross store east of the Site. The reports noted a new concrete subterranean clarifier next to this well.

Based on the information contained in the prior reports discussed in the EBI report, Arcadis concludes that the presence of TPH-impacted soil at the Site is a REC for the Site. Additionally, the presence of methane gas onsite is CREC for the Site as long as methane venting and regular monitoring are conducted. Any change in site use would likely require a re-evaluation of onsite methane mitigation.

According to EBI's review of an EDR regulatory records database report, no offsite properties with the potential to impact the Site were identified. EBI stated that no adverse environmental records were identified for the Site at local agencies contacted such as the Building Department, Fire Department, and Public Works Department.

EBI concluded their report as follows: "Although EBI recommends no further actions at this time, EBI is of the opinion that the potential exists for significant Subject Property ownership liability for costs associated with any future requirement for further actions related to the following environmental concerns: re-abandonment of the two former oil wells reportedly abandoned on the Subject Property in the 1930s; subsurface assessment and remediation of potentially contaminated surface and subsurface soils; and further actions required to address any future methane gas pressure and/or methane gas concentrations."

Arcadis concurs with EBI's conclusion with regard to future ownership liability related to historical uses of the Site and the Site's location within a defined high potential methane zone. Although EBI did not identify further action at the time, it is Arcadis' opinion that more refined cost estimates for future ownership liability could be obtained from a current subsurface site investigation. See **Appendix C** for a copy of the prior report.

5 RECORDS REVIEW

As part of this assessment, Arcadis reviewed regulatory databases and available agency files and records for the Site. Information from these sources is discussed in the following sections.

5.1 Regulatory Database Research

An environmental database report prepared by EDR was reviewed for local, state, and federal listings for properties within the site area. Included in EDR's report are regulatory databases reviewed by EDR for cases pertaining to leaking underground storage tanks (USTs) and aboveground storage tanks (ASTs), hazardous waste sites, and abandoned sites within the ASTM-specified radii **(Table 2)**. EDR also reviewed selected databases generated by the United States Environmental Protection Agency (U.S. EPA). Explanations of the regulatory agency databases reviewed are presented in EDR's report, which is included as **Appendix D**.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to approximately ±300 feet. Also, elevations were determined from the U.S. Geological Survey Digital Elevation Model and are relative (not absolute). Sites with an elevation equal to or higher than the target property have been differentiated from sites with an elevation lower than the target property.

Sites identified within the study radii were evaluated to determine if they are likely to have adversely impacted the Site. The criteria used to evaluate the potential for adverse impact to the Site include:

- Distance from the Site;
- Expected depth and direction of groundwater and surface water flow;
- Expected storm water flow direction; and
- Presence/absence of documented contaminant releases at the identified sites not identified as remediated.

Table 2 **Regulatory Agency Databases / Lists Reviewed**

Search Radius	Agency	Database	Type of Records in Database
1 mile	U.S. EPA	NPL	Sites designated for Superfund cleanup by the U.S. EPA
	U.S. EPA	CORRACTS	RCRA facilities undergoing "corrective actions"
0.5 mile	U.S. EPA	CERCLIS	Sites under review by the U.S. EPA
	U.S. EPA	TSD	Facilities that treat, store, and/or dispose of hazardous waste
	RWQCB	LUST	Sites with LUSTs

Search Radius	Agency	Database	Type of Records in Database
	SWRCB	SWLF/SWAT	Sites permitted as solid waste landfills, incinerators, or transfer stations
	IWMB	WMUDS/SWAT	Tracking and inventory of waste management units
	U.S. EPA	CERCLIS-NFRAP	CERCLIS sites with no further remedial actions planned.
Site or Adjacent Properties	U.S. EPA	RCRA Generator	Sites that generate large or small quantities of hazardous waste
	U.S. EPA	ERNS	Sites with reported accidental releases of oil and hazardous substances
	RWQCB	UST	Sites with registered USTs

Notes:

BEP = Bond Expenditure Plan

CERCLIS = Comprehensive Environmental Response Compensation and Liability Information System

CORRACTS = Corrective Action Report

ERNS = Emergency Response Notification System

DHS = Department of Public Health

IWMB = Integrated Waste Management Board

LUST = Leaking Underground Storage Tank

NFRAP = No Further Remedial Action Planned

NPL= National Priorities List

OES = Office of Emergency Services

SWAT = Solid Waste Assessment Test

SWLF = Solid Waste Landfills

TSD = Transfer, Storage and Disposal

WMUDS = Waste Management Unit Database

5.1.1 Site

According to EDR's report, the Site address 6310 W. Third Street is listed under the name Kmart in the HAZNET database. Kmart is listed as generating hazardous waste under manifest from 1995 through 2015. There are over 60 records listed. Typical waste streams included waste oil and mixed oil, unspecified solvent mixture, off-specification, aged or surplus organics, asbestos-containing waste, alkaline solution without metals, latex waste, and acidic liquids. This listing indicates the proper offsite disposal under manifest of hazardous waste and does not in itself indicate an environmental concern for the Site.

The Site address 6360 W. Third Street is listed under the name CVS Pharmacy No. 9661 in the RCRA-LQG and ECHO databases. The RCRA database provides a variety of waste codes for wastes generated at the site and indicates there were no violations. The same information is provided in the EPA's ECHO database.

The remaining site addresses were not listed in any of the databases searched.

5.1.2 Off-Site Properties

According to EDR's report, numerous properties are listed within the ASTM-search radius due to the Site's location within a densely developed urban area. However, based on their listing for tracking purposes only, distance from the Site, type of release, groundwater flow pattern, inactivity and no active regulatory involvement, and/or successful remediation with case closure granted by the regulatory oversight agency, none of the off-site properties listed in the EDR database report are likely to represent an obvious concern of environmental impairment or a vapor encroachment condition to the Site. However, the following adjacent properties are of note:

Hancock Park Elementary School, 408 S. Fairfax Avenue, is located adjacent south of the Site. It is listed in the Envirostor, RCRA-SQG, ECHO, and UST databases. It is listed on the DTSC's Envirostor website as "inactive – needs evaluation as of 11/22/2005." The only information provided is as follows: *The site is currently a school that has been in operation since 1953. The school is within an area designated by the city of Los Angeles as "high potential methane district." An abandoned oil well is in the middle of the school. The school has methane sensors underneath some buildings with high levels of alarms at 25 % of LEL. Manual measurements taken daily. 160 PPM methane detected (max).*

The Grove at Farmer's Market, 6301 W. Third Street, is located diagonal to the Site to the northeast. It is listed in the SLIC database. According to the RWQCB's Geotracker website, the case is listed as "open - verification monitoring as of 1/21/2000." Summary information is as follows: *The Grove is a 16-acre commercial development site, has been historically related to oil production operations. Soil, soil gas, and groundwater beneath the property are impacted by petroleum hydrocarbons. No free product is present at the site. No municipal supply well is located within three miles from the site. Shallow aquifer is at 5 to 25 feet below grade. Several phases of environmental assessments including health risk assessment and remediation were conducted through 2000. Site soil gas mitigation system under residential land use including vapor barrier and venting system for indoor air exposure pathway was permitted and installed. The complete site improvements satisfied human health protection requirements. The site has been redeveloped as commercial land-use prevents additional excavation.*

Mas Auto Service, 371 S. Fairfax Avenue, was located adjacent to the west of the Site across S. Fairfax Avenue. Mas Auto Service (also known as Mas Texaco Service) is listed in the LUST, UST and Historic Auto databases. According to the RWQCB's Geotracker website, the current status is "open - remediation as of 9/16/2005." The contaminant is listed as gasoline. The most recent (1st quarter 2017) groundwater monitoring report on Geotracker depicts the plume generated from the release at this facility to flow north and to remain on the west side of S. Fairfax Avenue. Therefore, based on active characterization of this site, ongoing remediation, and oversight by the RWQCB, this release does not appear to represent a current environmental concern for the Site. In addition, the sources of the releases, which were USTs, have been removed and the property is currently a vacant lot.

Kings Cleaners, 349 S. Fairfax Avenue, is located adjacent to the west of the Site across S. Fairfax Avenue. This address is also listed as Fair Fine Dry Cleaners and Fair Cleaners and is a currently an operating cleaner named Fair Dry Cleaners. It is listed in the RCRA-SQG, ECHO, CA HAZNET, and CA Drycleaners databases. It is listed as a generator of hazardous waste from 1995 to 2000; the waste stream is listed as halogenated solvents which includes the dry cleaning solvent perchloroethylene (PCE). No violations are reported. This facility currently uses a non-toxic dry cleaning compound

according to signage on the facility. However, the historical long-term use of PCE and the propensity for dry cleaners to release PCE to the environment represents a potential concern for the Site due to this facility's proximity to the Site. There are no agency records of a release from this facility; however, this can simply mean that no subsurface testing has been conducted. Arcadis observed two monitoring wells near this property, one north and one west of it. However, these wells are associated with the Mas Auto Service release south of the cleaners and the plume from that release is confined to the west side of S. Fairfax Avenue according to the most recent information from the RWQCB.

Thrifty Tailor & Dry Cleaners, 410 S. Fairfax Avenue, was located adjacent to the southwest of the Site across S. Fairfax Avenue and is listed as an Historical Cleaner in 2005 and 2006. No other information is provided. However, taken in context with an active dry cleaner approximately 300 feet north of this former dry cleaner, the potential remains for historical releases of dry cleaning solvents to have impacted the Site.

Several other historical cleaners and auto stations are listed within a 1/8-mile radius of the Site dating back to 1924; however, without further information, they are not anticipated to represent a current environmental concern to the Site. It is also noted that the EDR database report does not identify any regional groundwater plumes underlying the Site; however, this does not rule out that groundwater beneath the Site and in the surrounding area is not impacted with contaminants of concern due to the fairly shallow depth, reported to be less than 30 feet bgs, and the long-term development of the surrounding area for oil field and commercial uses. The shallow aquifer is not considered a potable water source.

Two properties are listed in EDR's Orphan Summary; however, neither appear to represent a current environmental concern to the Site.

5.2 Agency Research

Files and records available at the agencies listed in **Table 3** were reviewed for information on the Site.

Table 3 Local Agency Files

Source	Date	Information Obtained
California Regional Water Quality Control Board (RWQCB)	May 2017	Available information maintained by the RWQCB at http://geotracker.waterboards.ca.gov was reviewed for records concerning hazardous spills, USTs, and LUSTs at the Site. There were no records for the Site addresses.
Department of Toxic Substances Control (DTSC)	May 2017	A review of the DTSC website (http://www.envirostor.dtsc.ca.gov/public/) did not identify any records for the Site addresses.
Los Angeles City Fire Department (LAFD)	May 2017	Arcadis requested records for the site addresses from the LAFD. A response is pending at this time.
Los Angeles County Department of Public Works Environmental Programs Division	May 2017	A review of the agency's website (http://ladpw.org/epd/CleanLA/OpenFileReview.aspx) did not identify any records for the Site addresses.

Source	Date	Information Obtained
Division of Oil, Gas & Geothermal Resources (DOGGR)	May 2017	According to DOGGR's Well Finder database, two oil wells were located onsite, one north of the CVS along the western site boundary near S. Fairfax Avenue (API 03715230), and one located north of the Kmart near the northeast corner of the Site (API 03715229). See below for further details on the wells. Numerous wells are depicted in the surrounding area including one on the property north of the Site and one on the property south of the Site.
Los Angeles City Department of Public Works, Bureau of Engineering	March 31, 2004	*Methane and Methane Buffer Zones Map*. According to the map, the Site is located within a Methane Zone, which then indicates it is subject to various codes such as those enforced by the LAFD and the Los Angeles Building Department. See **Appendix E** for a copy of the map.

Onsite well detail -

Well ID	Well Number	Operator	Status
API 03715230	No. 102	Chevron U.S.A., Inc.	Plugged and abandoned in 1930/31 as reported in a prior report. No records on DOGGR website to confirm.
API 03715229	No. 99	Chevron U.S.A., Inc.	Plugged and abandoned in 1930/31 as reported in a prior report. No records on DOGGR website to confirm.

6 ENVIRONMENTAL SETTING

6.1 Topography

According to information obtained from the U.S. Geological Survey 7.5-Minute Series Topographic Map of the Hollywood quadrangle, dated 2012, topography at the Site is approximately 180 feet above mean sea level. The Site and surrounding area are relatively level. The general topographic gradient of the surrounding area exhibits a slight downward slope to the southwest.

6.2 Geology

The general geology summary provided by EDR specifies that the sediments beneath the Site have been identified as part of the Quaternary Series of the Quaternary System of the Cenozoic Era. According to the United States Department of Agriculture Soil Conservation Service, the Site is underlain by the Urban Land soil component, which indicates near surface soil has been reworked to the extent that native soil characteristics are no longer identifiable.

6.3 Surface Water

Arcadis did not observe surface water features onsite or adjacent to the Site.

6.4 Hydrogeology

According to a report on Geotracker for a property located adjacent west of the Site across S. Fairfax Avenue (371 S. Fairfax Avenue), depth to groundwater ranges from approximately 14 to 31 feet bgs. The groundwater gradient is reported to be to the north/northwest.

6.5 Flood Zones

According to the EDR report, the eastern, western and northern boundaries of the Site are within a 500-year flood zone.

7 SITE RECONNAISSANCE

On May 17, 2017, Mr. Blake Hunter, a representative of Arcadis, performed a reconnaissance-level assessment of the Site to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walk-over site reconnaissance was conducted to identify visible evidence of RECs. Mr. Hunter was accompanied by Mr. Osmar Flores, Maintenance Supervisor with The ARBA Group, the property manager, and Mr. Bob Voakes, Building Engineer with Kmart, during the site reconnaissance. Photographs taken during the site reconnaissance are included in **Appendix A**.

7.1 Methodology and Limiting Conditions

Arcadis' representative was granted full access to the Site. The methodology for the site visit included walking and observing the entire site except for the Citibank building. There were no other limiting conditions.

7.2 General Site Conditions

7.2.1 Site Observations

The approximate 7.5-acre, irregular-shaped site consists of a retail shopping center. The retail buildings are located on the south side of the Site. The north portion of the Site is occupied by an asphalt-paved parking lot, a bank building, and a small locksmith shop.

Kmart

Kmart occupies the east shopping center building. The Kmart building is a two-story building with a basement. The basement and first floors are used for retail sales. The second story consists of retail goods storage areas, former offices, a staff lounge, restrooms, a hazardous materials storage room, and air handler rooms for the building.

Three elevators and a series of escalators provide access to the floors of the building. Two of the elevators are traction-type. A service elevator is hydraulic. An inspection of the elevator equipment rooms did not reveal evidence of spills or releases of hydraulic fluid or unusual odors. The equipment appeared to be in aged condition.

Two hydraulic box compactors are located on the first floor of the building. According to Mr. Voakes, one of the compactors is not in operating order and is not used. No evidence of releases or significant staining was observed on the compactors or in the surrounding area. Mr. Voakes was unaware of any releases from the compactors.

New automotive batteries and automotive maintenance and cleaning chemicals are stored on retail shelves in the basement of the building and in a small storage room. The containers appeared to be in new condition and no evidence of releases or staining was observed.

Used automotive batteries are stored in a hazardous materials room located on the second floor of the building. The batteries were observed to be stored on wooden pallets. Poly drums of hazardous materials

are also stored in the room. The hazardous materials consist of damaged aerosols such as hair spray, soaps and cleaners, waxes and polishes, makeup, etc. The poly drums are labeled stating their contents and are sealed. No evidence of releases or staining was observed in the hazardous materials room. According to Mr. Voakes, the hazardous materials and batteries are removed on a regular basis by regional Kmart personnel.

Whole Foods Market

Whole Foods Market occupies the western portion of the shopping center buildings. The building is single-story and of concrete, wood, and steel beam construction. Stockrooms, a refrigeration equipment room, hazardous materials center, and offices are located in the rear, southern portion of the building.

The refrigeration equipment room contains approximately 16 compressors and large cooling equipment. The equipment and piping is labeled as containing R-404A refrigerant and Polyol Ester Lubricant. The equipment appeared to be aged but in good operating order. Dark staining was observed on and around the compressors but the staining appeared to be due to small releases over a long period of time and not from a malfunction release.

A hydraulic box compressor is present near the loading dock. The compressor appeared to be in good operating order and no evidence of releases or significant staining was observed on the compactor or in the surrounding area.

A hazardous materials center is located next to the box compressor. The area contained two poly 55-gallon drums and approximately seven poly bins. The containers were labeled as to their contents. The hazardous materials consist of damaged cleaners, bleach, liquids, small batteries, make up, and aerosols. No evidence of staining or releases was observed on the containers or in the surrounding area.

A truck loading dock is located at the south side of the building. Forklift propane tanks are stored in locked steel cages on the loading dock. Additionally, four steel plates are present in the floor of the loading dock, evidence of a possible clarifier. Mr. Flores was unaware of a clarifier at the Site. Mr. Flores did state that the floor drain in the loading dock was connected to a sump pump.

CVS Pharmacy

The CVS Pharmacy building occupies the western end of the retail buildings. The building is a single-story structure with a basement. The basement is used for retail goods storage and utilizes a conveyer system to transport the goods to the first floor.

A hydraulic box compressor is present near the loading dock at the south side of the building. The compressor appeared to be in good operating order and no evidence of releases or significant staining was observed on the compactor or in the surrounding area.

Citibank

Citibank occupies the building located in the northwest corner of the Site. Access to the interior of the bank was not granted for this assessment. There is reportedly a basement in this building.

7.2.2 Hazardous Substances and Petroleum Products in Connection with Identified Uses

No hazardous substances or petroleum products were observed onsite other than as described above.

7.2.3 Storage Tanks

Arcadis did not observe ASTs at the Site. No evidence of USTs, such as dispensers, pipes, or vent lines, was observed on the Site.

7.2.4 Odors

No odors that would indicate an environmental concern were noted on the Site.

7.2.5 Pools of Liquid

No readily visible standing surface water, pools, or sumps containing liquids likely to be hazardous substances or petroleum products were identified during this assessment.

7.2.6 Drums

Poly drums containing hazardous waste are stored in the Kmart and Whole Food Market facilities. The drums contain general waste such damaged cleaners, make up, and aerosols. No other drums were observed on site.

7.2.7 Hazardous Substances and Petroleum Product Containers (Not Necessarily in Connection with Identified Uses)

No hazardous substances or petroleum products were observed onsite not in connection with identified uses.

7.2.8 Unidentified Substance Containers

No unidentified substance containers were observed onsite.

7.2.9 PCBs

No electrical or hydraulic equipment known to contain polychlorinated biphenyls (PCBs) or likely to contain PCBs was identified onsite during this assessment. An electrical transmission line with pole - mounted transformers was observed along the eastern site boundary. The transformers appeared to be in good condition and no evidence of seepage or releases was observed. The transformers are owned by the Los Angeles Department of Water & Power (DWP) and any concerns with the transformers would be the responsibility of DWP.

7.2.10 Pits, Ponds, or Lagoons

During the site visit, Arcadis' representative looked for pits, ponds, or lagoons on the Site. Arcadis' representative also looked for pits, ponds, and lagoons on adjoining properties to the extent that such features could be visually and/ or physically observed from the Site or identified in the interviews or records review. No such features were identified on or near the Site.

7.2.11 Stained Soil or Pavement

During the site visit, Arcadis' representative did not observe areas of stained soil or significantly stained pavement.

7.2.12 Stressed Vegetation

During the site visit, Arcadis' representative looked for areas of stressed vegetation (from other than insufficient water). No areas of stressed vegetation were observed during this assessment.

7.2.13 Solid Waste

During the site visit, Arcadis looked for areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal. No such areas were observed.

7.2.14 Wastewater

During the site visit, Arcadis looked for wastewater or other liquids (including storm water) or discharges into a drain, ditch, underground injection system, or stream on or adjacent to the Site. There is no process wastewater discharged on site.

7.2.15 Wells

During the site visit, Arcadis looked for wells, including dry wells, irrigation wells, injection wells, monitoring wells, water wells, abandoned wells, oil wells, or other wells. No wells were observed onsite. Former oil wells onsite are discussed elsewhere in this report.

7.2.16 Septic Systems

During the site visit, Arcadis looked for indications of on-site septic systems or cesspools. No septic systems or cesspools were observed. The Site is connected to the municipal sewer system.

7.2.17 Heating / Cooling

Heating and cooling systems were not evaluated for this assessment.

7.2.18 Stains or Corrosion

Arcadis did not observe areas of significant staining or corrosion during this site assessment.

7.2.19 Drains or Sumps

Floor drains were observed in the air handler and refrigeration rooms onsite. The drains appeared to direct condensation to the sewer system.

A steel-grated drain was observed in the truck loading dock of the Whole Foods Market building. According to Mr. Flores, the drain is connected to a sump pump. Mr. Flores was unaware of the further discharge of the drain.

8 INTERVIEWS

8.1 Interview with Site Contacts

Arcadis interviewed Mr. Osmar Flores, Maintenance Supervisor for The ARBA Group, the property management company. Mr. Flores was aware of the methane monitoring system onsite; however, he was unaware of the system being activated since managing the property for the past two years. Additional relevant information from Mr. Flores is included within this report.

Arcadis interviewed Mr. Bob Voakes with Kmart. Mr. Voakes stated he has been associated with the Site's Kmart facility for 35 years. Mr. Voakes was aware of the methane monitoring system onsite and stated he was unaware of the system being activated since installed after an east adjacent facility explosion. Additional relevant information from Mr. Voakes is included within this report.

9 FINDINGS AND CONCLUSIONS

Arcadis has performed a Phase I ESA in accordance with the ASTM International E1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. Limitations or deviations from this practice are described in Section 1.4 of this report. The findings identified by Arcadis are summarized below and discussed in greater detail in the body of the report.

9.1 Recognized Environmental Conditions

No RECs were identified in connection with the Site, with the following exceptions:

- A previous subsurface investigation conducted onsite in 1998 identified soil impacted with petroleum hydrocarbons. The depth of impact was mainly confined to less than 10 feet bgs; however, one location had elevated concentrations of contaminants to greater than 20 feet bgs. The origin of the contamination is attributed to former oil field activities onsite including oil wells and oil sumps.

- The former oil wells onsite do not appear to have been abandoned to current DOGGR standards and a previous consultant suspected the well in the northeast portion of the Site was leaking and contributing to high methane gas levels in this area.

- The presence of current and historical dry cleaners adjacent west of the Site represents a suspect REC for the Site. If releases of PCE from the dry cleaners impacted soil vapor and groundwater, a vapor intrusion concern may exist for the Site.

9.2 Controlled Recognized Environmental Conditions

No CRECs were identified in connection with the Site, with the following exception:

- The Site's location within a defined methane zone and the detected presence of methane gas onsite represents an environmental concern for the Site and the health and safety of site occupants. However, as long as methane continues to be monitored and vented in accordance with Fire Department requirements, it is considered a CREC for the Site.

9.3 Historical Recognized Environmental Conditions

No HRECs were identified in connection with the Site.

9.4 *De Minimis* Conditions

The following *de minimis* conditions were identified in connection with the Site:

- It is a possible a clarifier is present at the south end of the Site. Based on the types of current and historical tenant uses it is not anticipated that hazardous materials were routed through the

clarifier. It is likely that the clarifier was used for waste cooking grease from onsite restaurants. However, evaluation of the clarifier is warranted if the Site is redeveloped.

- Aging equipment onsite, such as elevators and compressors, indicate the potential for oily releases to the subsurface.

9.5 Conclusions

Arcadis has performed a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E1527-13 for Phase I ESAs. This assessment has revealed no evidence of RECs in connection with the Site other than as identified in Section 9.1 above. In order to more fully understand the ownership liability of the RECs, Arcadis recommends further investigation and/or discussion with legal counsel.

No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. This evaluation was intended to reduce, but not eliminate uncertainty in RECs.

10 DATA GAPS

Previous reports prepared for the Site indicated that the Site is monitored for methane gas. However, Arcadis was not provided with current information regarding onsite methane monitoring and site contacts indicated the methane monitoring system onsite is currently inactive. The lack of information provided on the current status of onsite methane monitoring and the Site's compliance with Fire and Building Department ordinances represents a data gap for the Site. An in-depth evaluation is recommended.

No other significant data gaps were identified during this assessment. Pertinent data, if any, obtained by Regency following the issuance of this report should be reviewed by an environmental professional and an addendum should be prepared to present an evaluation of the data and any changes to the conclusions of this report, as warranted by the data.

11 ENVIRONMENTAL PROFESSIONALS STATEMENT

The environmental assessment described herein was conducted by the undersigned employee of Arcadis. Arcadis' assessment consisted solely of the activities described in the Introduction of this Report, and in accordance with the ASTM E1527-13 guidelines for Phase I Environmental Site Assessments signed prior to initiation of the assessment, as applicable.

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

Report Prepared By:



May 26, 2017

Janet Holtz — Date
Principal Environmental Scientist

*A professional geologist's or environmental professional's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

12 REFERENCES

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

EBI Consulting. 2004. Phase I Environmental Site Assessment Report, Town & Country Retail, 6310-6360 W. Third Street, Los Angeles, CA. August 13.

Environmental Data Resources, Inc. (EDR). 2017. Radius Map Report with GeoCheck. Inquiry #4930273.2s. May 8.

EDR. 2017. Aerial Photo Decade Package. May 9.

EDR. 2017. Historical Topographic Map Report. May 8.

EDR. 2017. Certified Sanborn Map Report. May 8.

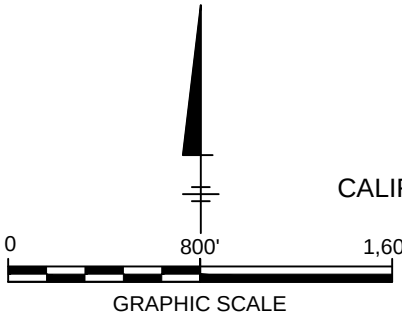
EDR. 2017. Historical City Directory Abstract. May 9.

FIGURES



MAP SOURCE: Google Earth Pro, 34Á04'14.64"N, 118Á21'38.36"W





TOWN AND COUNTRY RETAIL
6310-6360 WEST 3rd STREET
LOS ANGELES, CALIFORNIA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY:IRVINE, CA DIV/GROUP:ENVCAD DB:E.MURESAN PIC: J. HOLTZ
G:\ENVCAD\Irvine\ACT\CM0119440000\CM0119440000 Site.dwg LAYOUT: 1 SAVED: 5/16/2017 4:57 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/16/2017 4:57 PM BY: MURESAN, ELENA

CITY: IRVINE, CA DIV/GROUP:ENVCAD DB: E. MURESAN PIC: J. HOLTZ
G:\ENVCAD\Irvine\ACT\CM011\44\0000\CM011-44.0000 Site.dwg LAYOUT: 2 SAVED: 5/18/201 1:4 PM PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 5/18/201 1:4 PM BY: MURESAN, ELENA



MAP SOURCE: Google Earth Pro, 34 04 14. 4"N, 118 21 38.3 "W

LEGEND:

PROPERTY BOUNDARY

0 140 280

GRAPHIC SCALE

TOWN AND COUNTRY RETAIL
310-30 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

APPENDIX A

Site Photographs



Photograph #1

Description of Photograph:
View of the Site towards southeast.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #2

Description of Photograph:
View of the Site towards southeast.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #3

Description of Photograph:
View of the bank building at northwest corner of the Site.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #4

Description of Photograph:
View of the Locksmith at the northeast corner of the Site and east adjacent properties.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #5

Description of Photograph:
View of the first floor of the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #6

Description of Photograph:
Typical storage on second floor of Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #7

Description of Photograph:
View of potential asbestos insulation in air handling room.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #8

Description of Photograph:
View of the paint and lubricating oil in air handling room.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #9

Description of Photograph:
View of the used batteries stored in the hazardous materials storage room in the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #10

Description of Photograph:
View of hazardous materials storage room in the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #11

Description of Photograph:
View of the box compactor in the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #12

Description of Photograph:
View of the hydraulic service elevator equipment room.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #13

Description of Photograph:
View of new batteries in the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #14

Description of Photograph:
View of the new automotive chemicals in the Kmart building.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #15

Description of Photograph:
View of the Little Ceasar's kitchen area.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #16

Description of Photograph:
View of the methane monitoring control panel for the Site.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #17

Description of Photograph:
View of a typical methane monitor at the Site.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #18

Description of Photograph:
View of the Whole Food Market interior.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #19

Description of Photograph:
View of the refrigerant compressors in the Whole Foods Market.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #20

Description of Photograph:
View of the refrigerant and lubricant used in the Whole Foods Market refrigeration system.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #21

Description of Photograph:
View of the box compactor in the Whole Foods Market.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #22

Description of Photograph:
View of the Hazardous Materials Center in the Whole Foods Market.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #23

Description of Photograph:
View of the loading dock at Whole Foods Market. Note possible clarifier.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #24

Description of Photograph:
View of the south access alley at the Site.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #25

Description of Photograph:
View of the CVS Pharmacy interior.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #26

Description of Photograph:
View of the box compactor at the CVS Pharmacy facility.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #27

Description of Photograph:
View of the north adjacent properties.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #28

Description of Photograph:
View of the west adjacent former gasoline station.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #29

Description of Photograph:
View of the west adjacent properties. Note dry cleaners facility.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017



Photograph #30

Description of Photograph:
View of the south adjacent property.

Site Location:
6310-6360 West 3rd Street, Los Angeles, CA

Photograph Taken By:
Blake Hunter

Date of Photograph:
May 17, 2017

APPENDIX B

Historical Research Documentation

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036

Inquiry Number: 4930273.3
May 08, 2017

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

05/08/17

Site Name:

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036
EDR Inquiry # 4930273.3

Client Name:

ARCADIS U.S., Inc.
320 Commerce Suite 200
Irvine, CA 92602-0000
Contact: Janet Holtz

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Certified Sanborn Results:

Certification # 0A51-4B96-9FB7

PO # NA

Project Regency L.A.

Maps Provided:

1969
1950

Sanborn® Library search results

Certification #: 0A51-4B96-9FB7

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

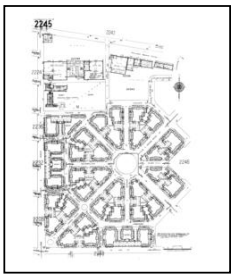
1969 Source Sheets



Volume 22, Sheet 2224
1969



Volume 22, Sheet 2243
1969

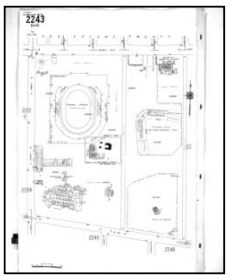


Volume 22, Sheet 2245
1969

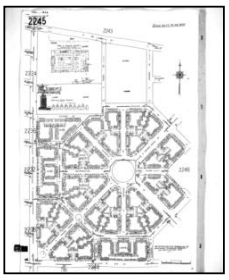
1950 Source Sheets



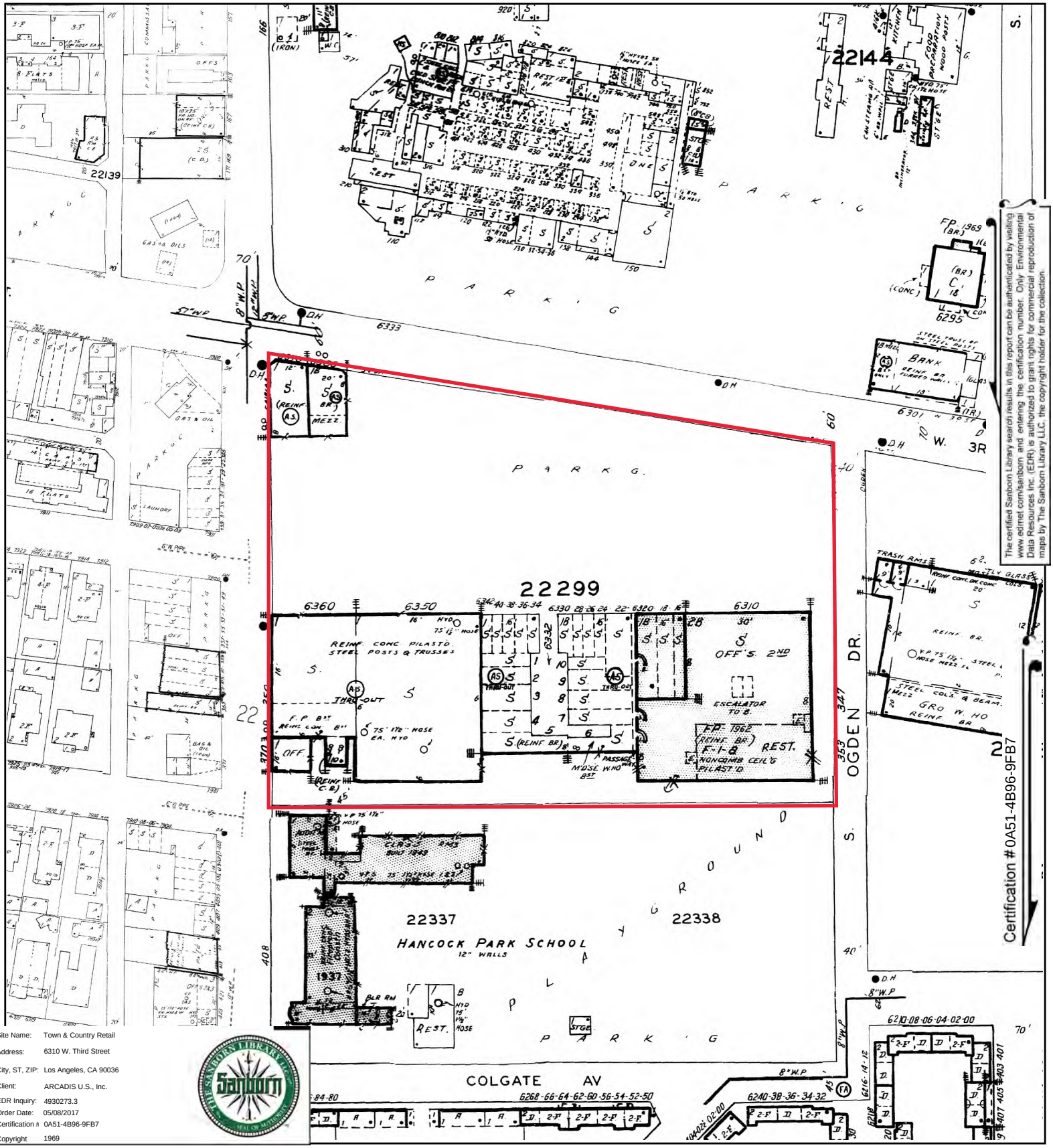
Volume 22, Sheet 2224
1950



Volume 22, Sheet 2243
1950



Volume 22, Sheet 2245
1950



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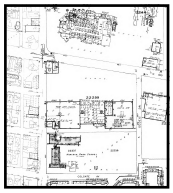
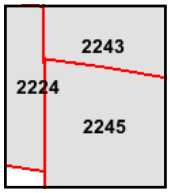
Site Name:	Town & Country Retail
Address:	6310 W. Third Street
City, ST, ZIP:	Los Angeles, CA 90036
Client:	ARCADIS U.S., Inc.
EDR Inquiry:	4930273.3
Order Date:	05/08/2017
Certification #	0A51-4B96-9FB7
Copyright	1969

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.





Volume 22, Sheet 2245
Volume 22, Sheet 2243
Volume 22, Sheet 2224

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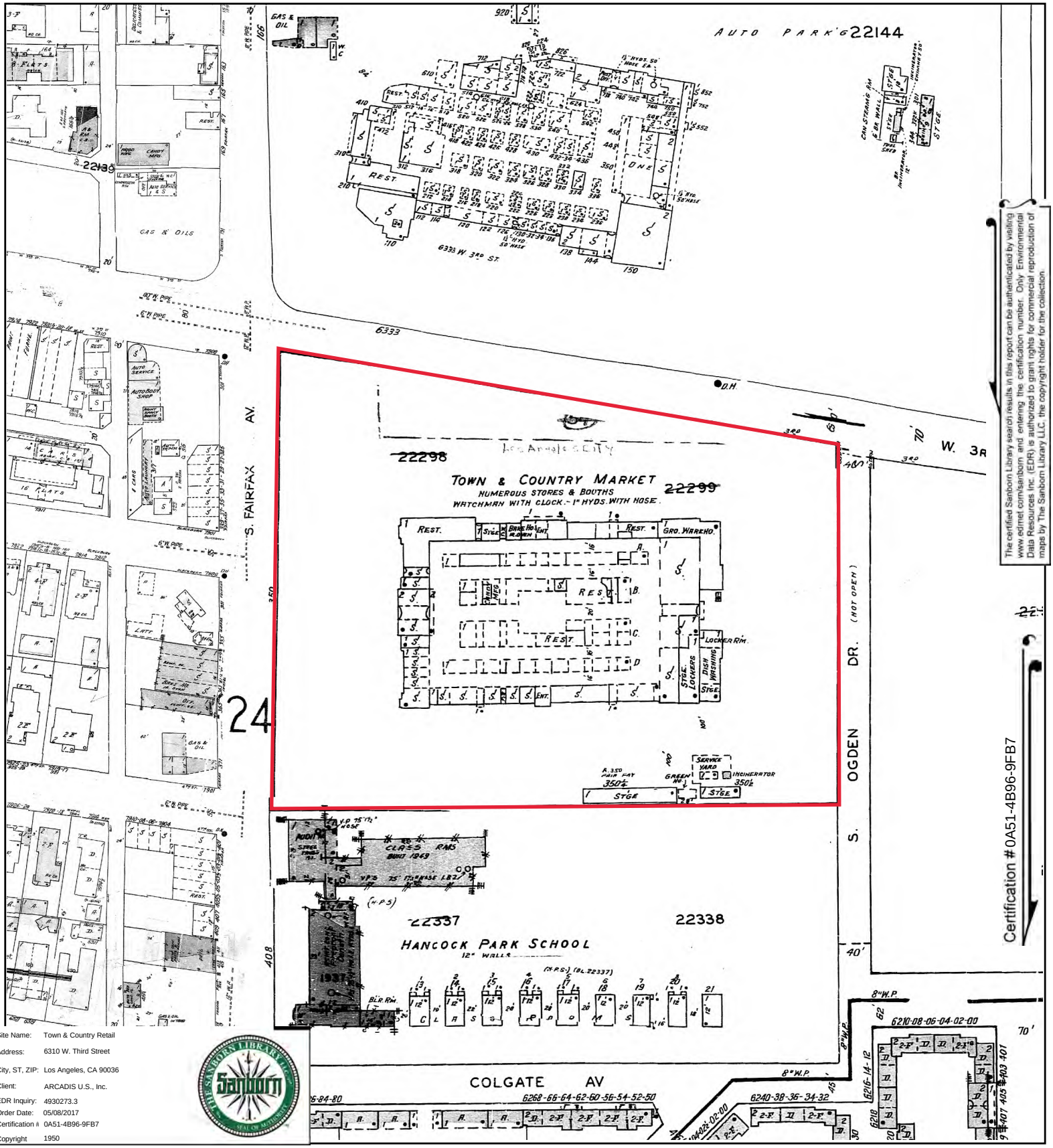

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Address:	6310 W. Third Street
City, ST, ZIP:	Los Angeles, CA 90036
Client:	ARCADIS U.S., Inc.
EDR Inquiry:	4930273.3
Order Date:	05/08/2017
Certification #	0A51-4B96-9FB7
Copyright	1950

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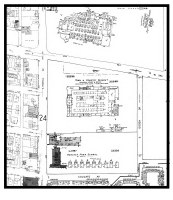



Volume 22, Sheet 2245
Volume 22, Sheet 2243
Volume 22, Sheet 2224

0 Feet 150 300 600

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036

Inquiry Number: 4930273.9
May 09, 2017

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

05/09/17

Site Name:

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036
EDR Inquiry # 4930273.9

Client Name:

ARCADIS U.S., Inc.
320 Commerce Suite 200
Irvine, CA 92602-0000
Contact: Janet Holtz

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
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April 25, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 21, 1972	EDR Proprietary Brewster Pacific
1964	1"=500'	Flight Date: July 28, 1964	USGS
1952	1"=500'	Flight Date: August 02, 1952	USGS
1948	1"=500'	Flight Date: July 10, 1948	USGS
1938	1"=500'	Flight Date: May 22, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	USGS
1923	1"=500'	Flight Date: January 01, 1923	FAIR

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INQUIRY #: 4930273.9
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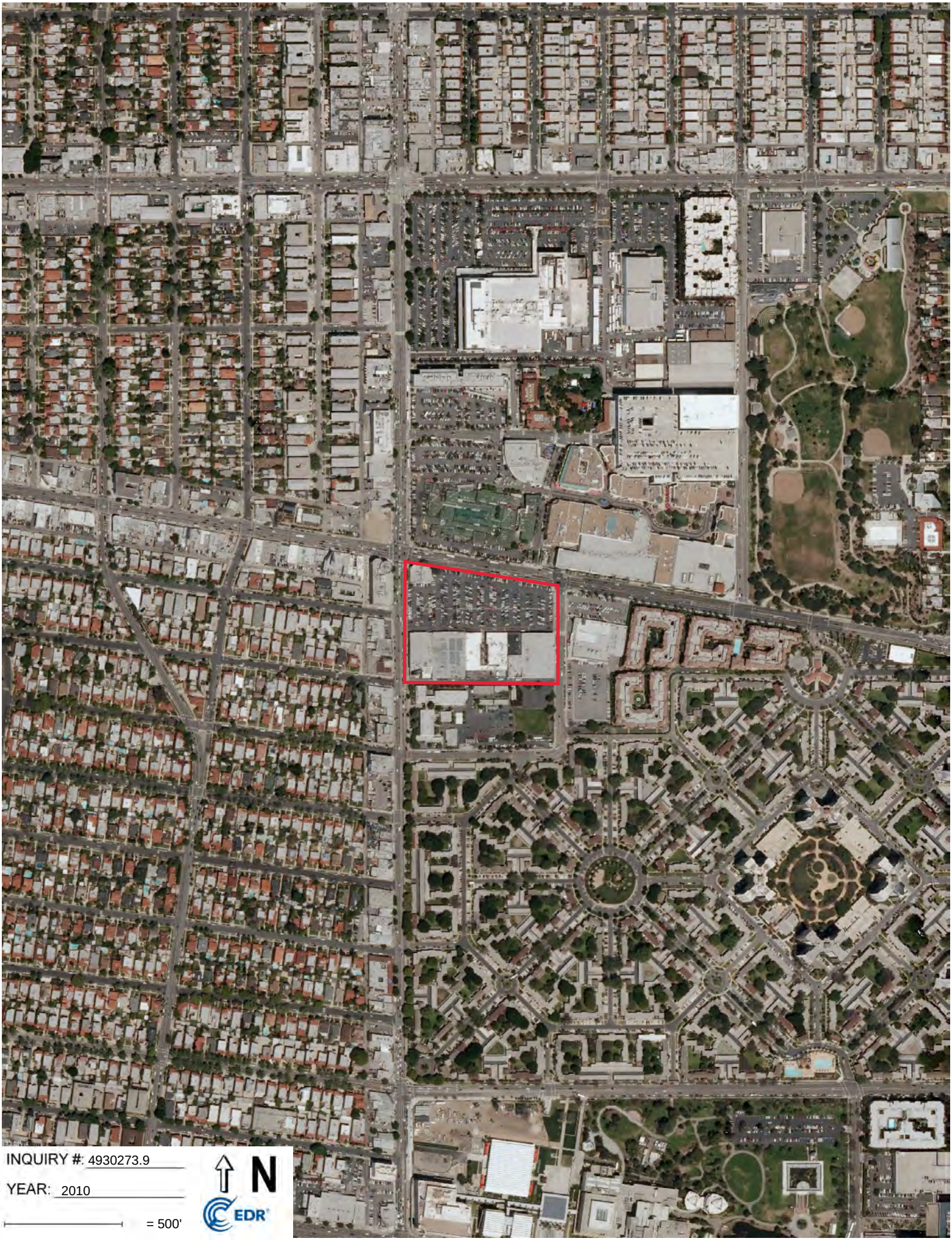
EDR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YEAR: 2010
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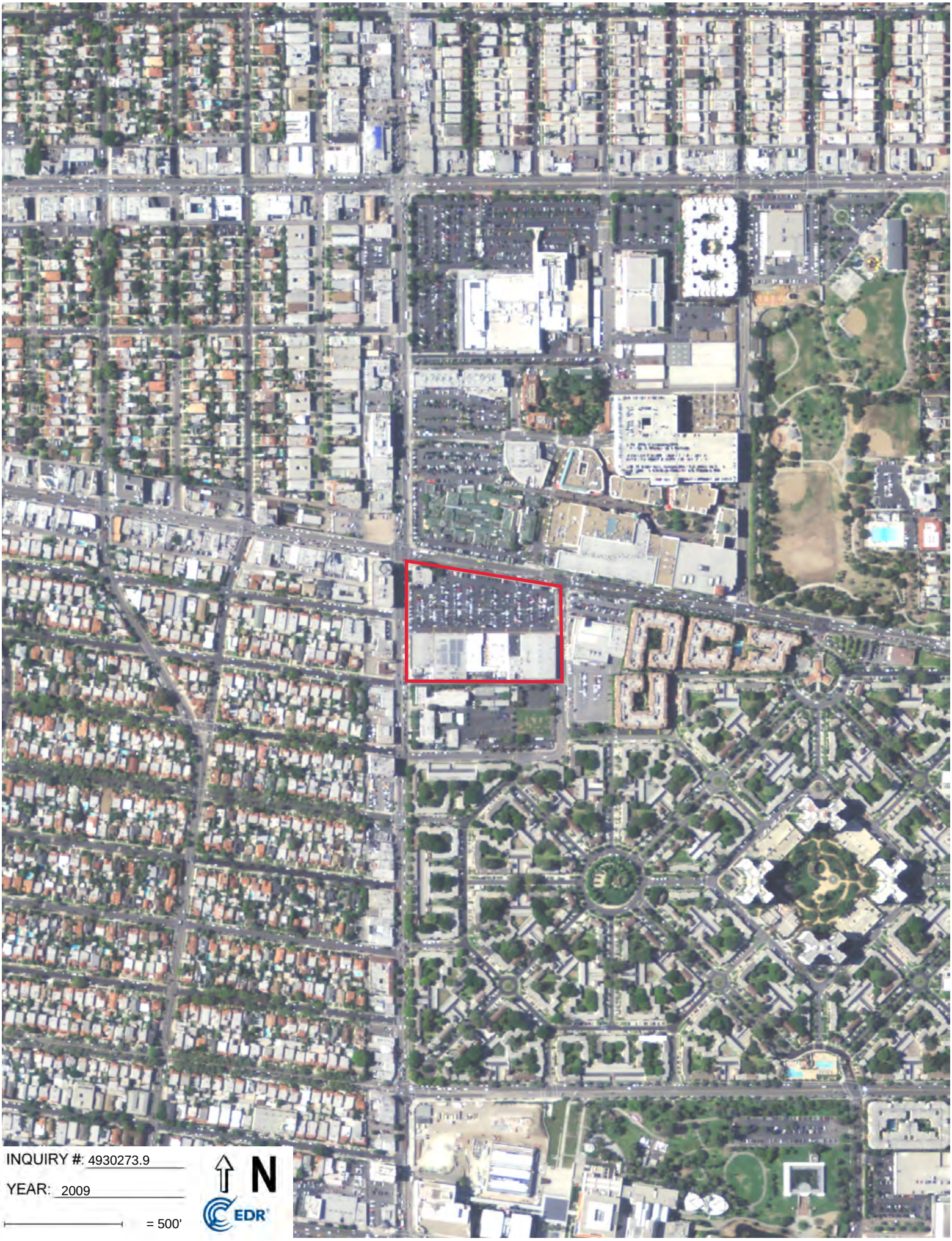
EDR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YEAR: 2009
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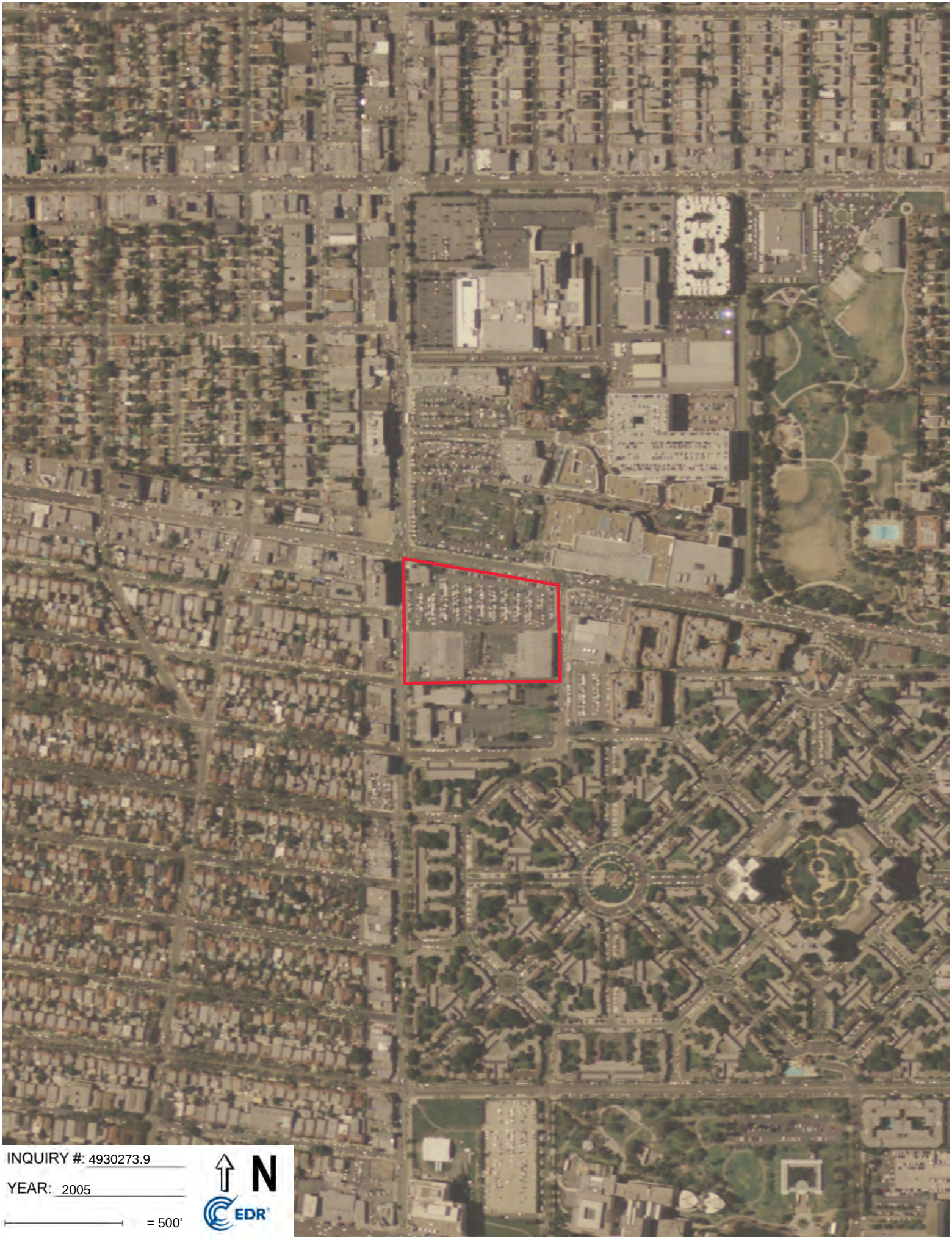
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EDR


INQUIRY #: 4930273.9
YEAR: 2002
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EDR


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YEAR: 1994
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EDR


INQUIRY #: 4930273.9
YEAR: 1989
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EDR


INQUIRY #: 4930273.9
YEAR: 1983
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EDR


INQUIRY #: 4930273.9
YEAR: 1977
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EDR


INQUIRY #: 4930273.9
YEAR: 1972
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N
EDR


INQUIRY #: 4930273.9
YEAR: 1964
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N
EDR


INQUIRY #: 4930273.9
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 4930273.9
YEAR: 1948
= 500'
N
EDR


INQUIRY #: 4930273.9
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 4930273.9
YEAR: 1928
= 500'
N
EDR



INQUIRY #: 4930273.9

YEAR: 1923

= 500'

N

EDR

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036

Inquiry Number: 4930273.4
May 08, 2017

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

05/08/17

Site Name:

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036
EDR Inquiry # 4930273.4

Client Name:

ARCADIS U.S., Inc.
320 Commerce Suite 200
Irvine, CA 92602-0000
Contact: Janet Holtz

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ARCADIS U.S., 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:

P.O.# NA
Project: Regency L.A.

Coordinates:

Latitude:	34.070699 34° 4' 15" North
Longitude:	-118.360324 -118° 21' 37" West
UTM Zone:	Zone 11 North
UTM X Meters:	374476.77
UTM Y Meters:	3770829.86
Elevation:	180.50' above sea level

Maps Provided:

2012	1921
1991, 1994	1920
1981	1902
1972	1900
1966	1898
1950, 1953	1896
1926	1894
1924	

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Topo Sheet Key

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

2012 Source Sheets



Hollywood
2012
7.5-minute, 24000



Beverly Hills
2012
7.5-minute, 24000

1991, 1994 Source Sheets



Hollywood
1991
7.5-minute, 24000
Aerial Photo Revised 1978



Beverly Hills
1994
7.5-minute, 24000
Aerial Photo Revised 1978

1981 Source Sheets



Beverly Hills
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Hollywood
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Hollywood
1972
7.5-minute, 24000
Aerial Photo Revised 1972

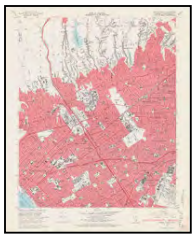


Beverly Hills
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Topo Sheet Key

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

1966 Source Sheets



Beverly Hills
1966
7.5-minute, 24000
Aerial Photo Revised 1964



Hollywood
1966
7.5-minute, 24000
Aerial Photo Revised 1964

1950, 1953 Source Sheets



Beverly Hills
1950
7.5-minute, 24000
Aerial Photo Revised 1947



Hollywood
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1926 Source Sheets



Hollywood
1926
7.5-minute, 24000

1924 Source Sheets



Hollywood
1924
7.5-minute, 24000

Topo Sheet Key

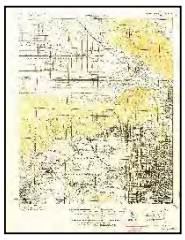
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1921 Source Sheets



Santa Monica
1921
15-minute, 62500

1920 Source Sheets



SANTA MONICA
1920
15-minute, 62500

1902 Source Sheets



Santa Monica
1902
15-minute, 62500

1900 Source Sheets



Los Angeles
1900
15-minute, 62500

Topo Sheet Key

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

1898 Source Sheets



Santa Monica
1898
15-minute, 62500

1896 Source Sheets



Santa Monica
1896
15-minute, 62500

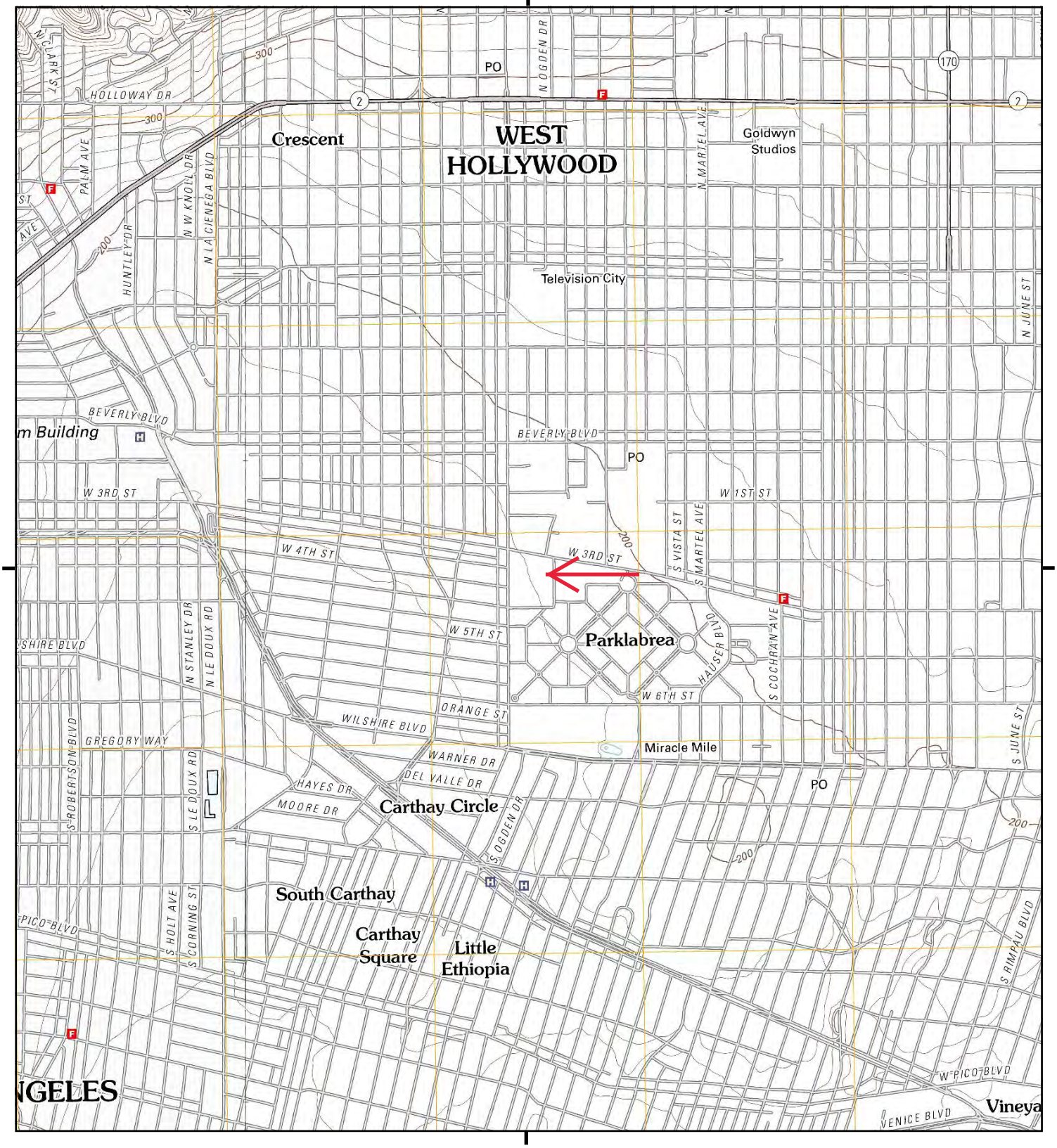
1894 Source Sheets



Los Angeles
1894
15-minute, 62500

Historical Topo Map

2012



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

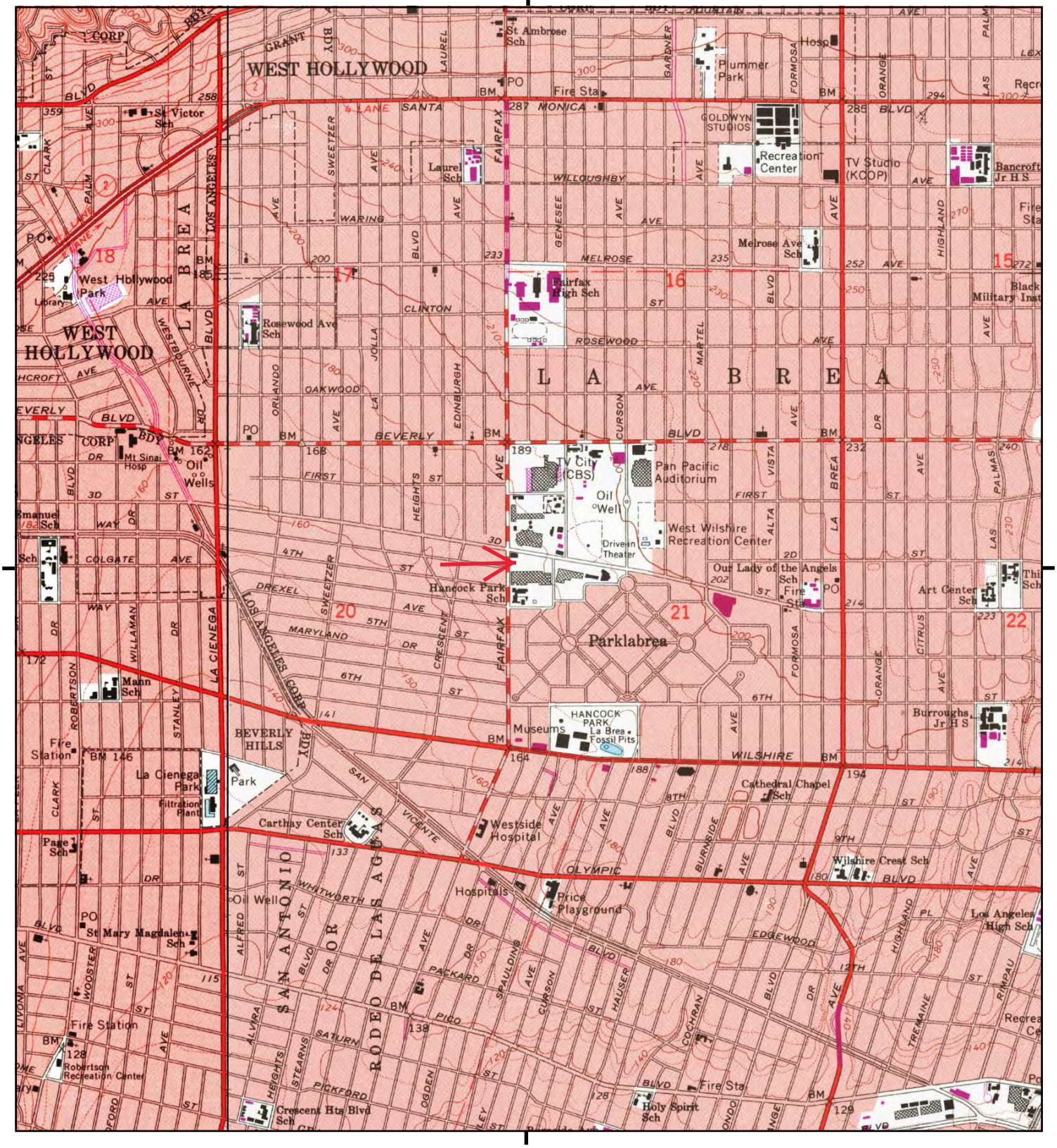
TP, Hollywood, 2012, 7.5-minute
W, Beverly Hills, 2012, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1991, 1994



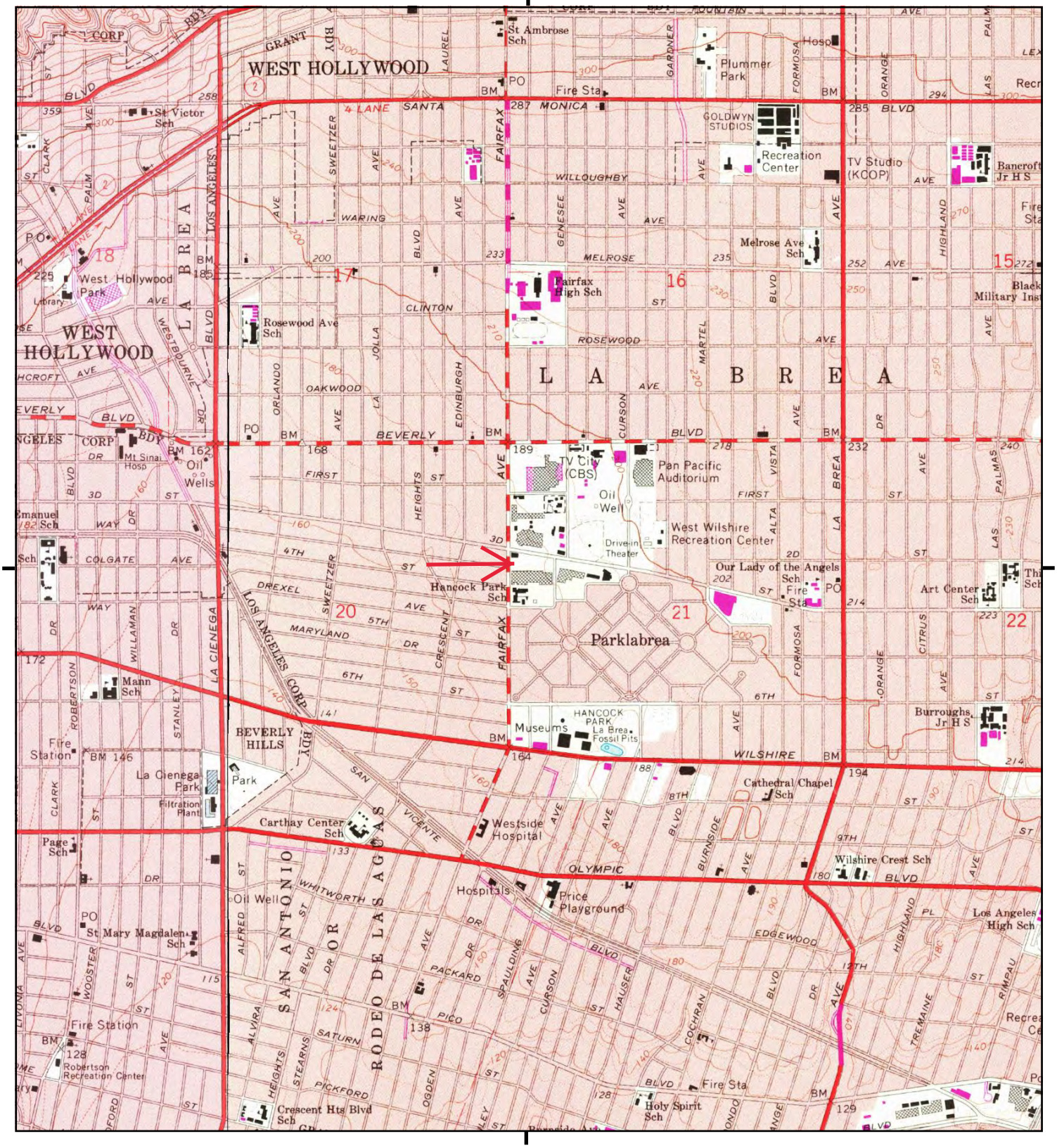
This report includes information from the following map sheet(s).

NW N NE
W E
SW S SE

TP, Hollywood, 1991, 7.5-minute
W, Beverly Hills, 1994, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

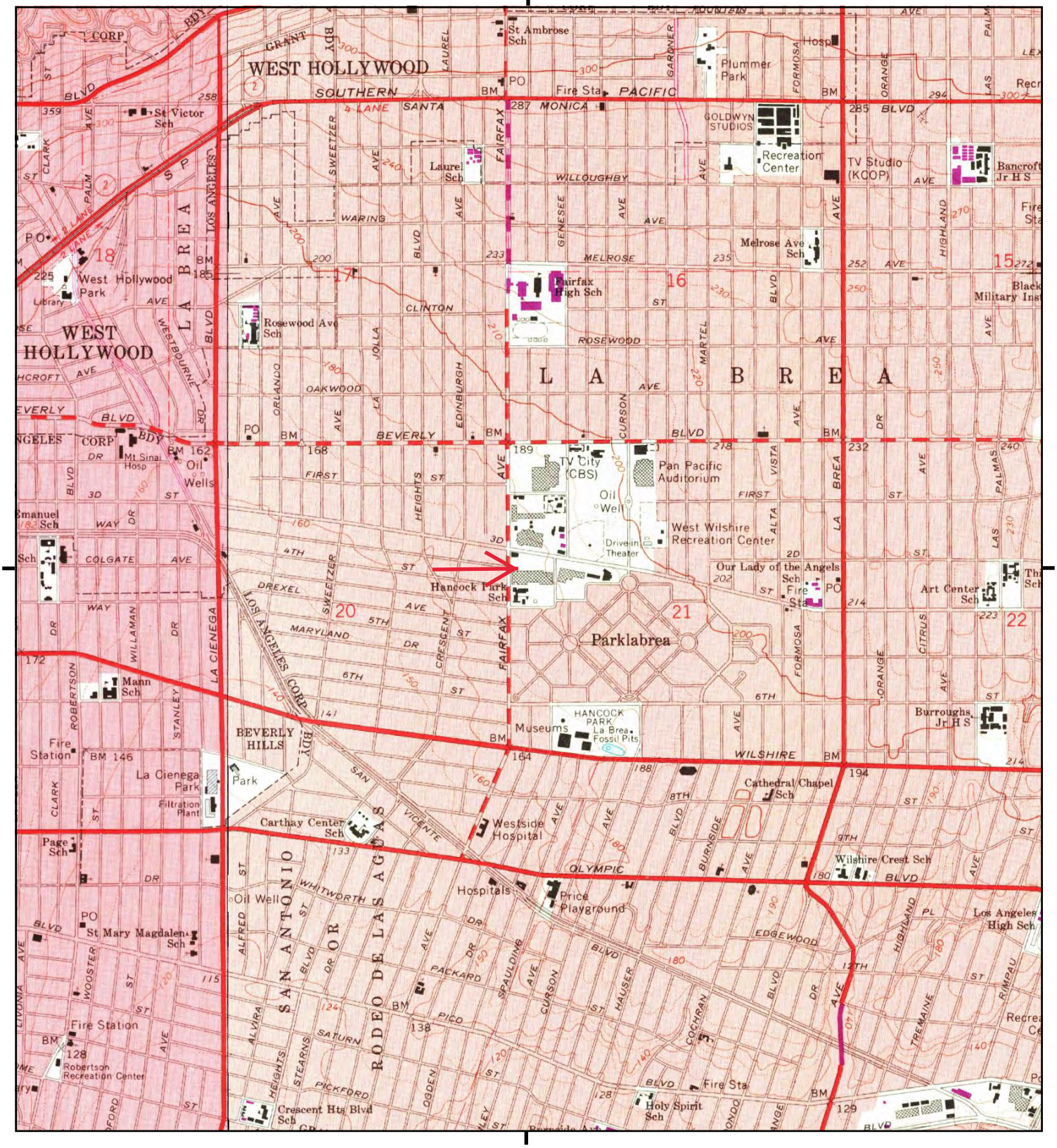
TP, Hollywood, 1981, 7.5-minute
W, Beverly Hills, 1981, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1972



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

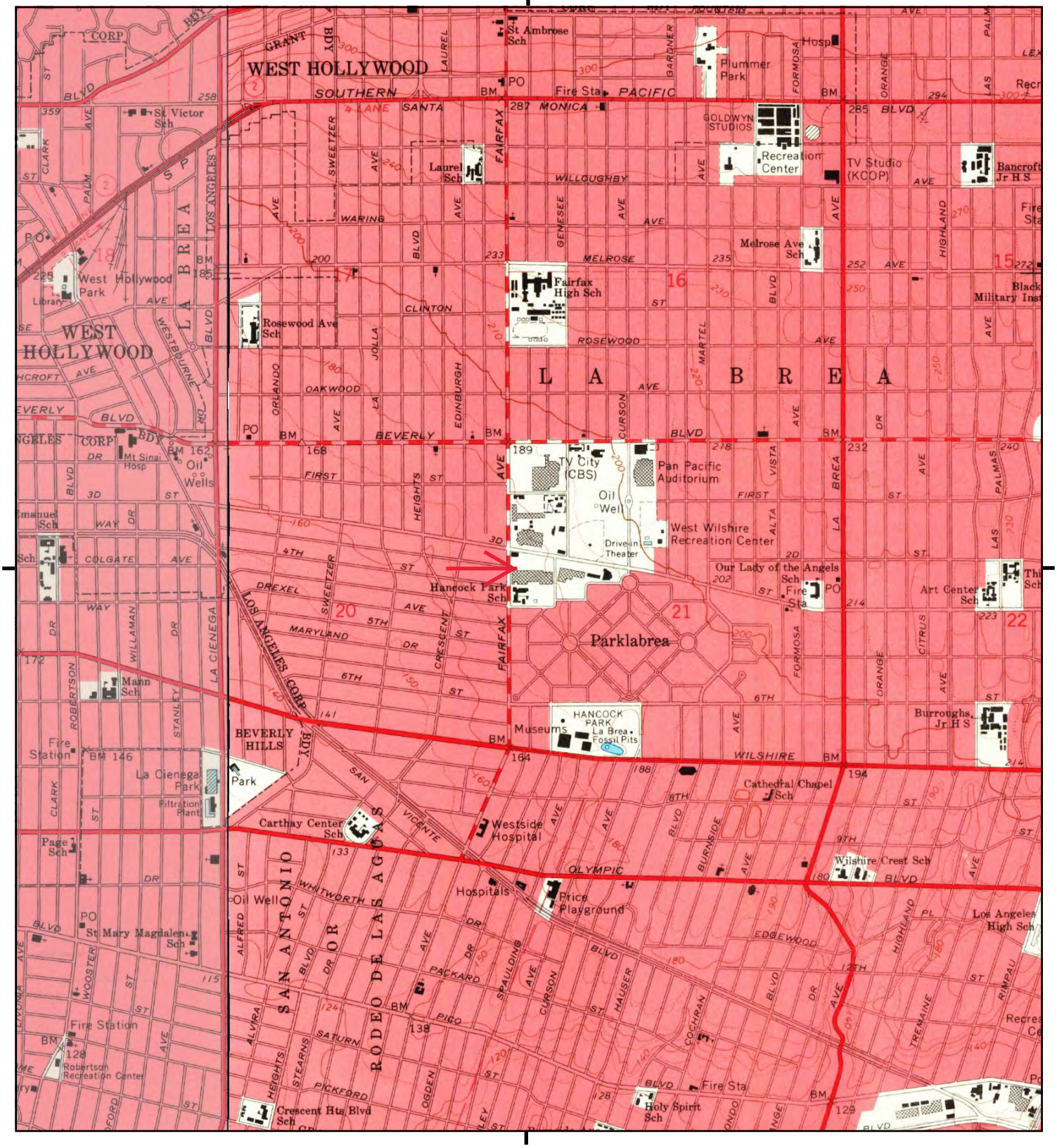
TP, Hollywood, 1972, 7.5-minute
W, Beverly Hills, 1972, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1966



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

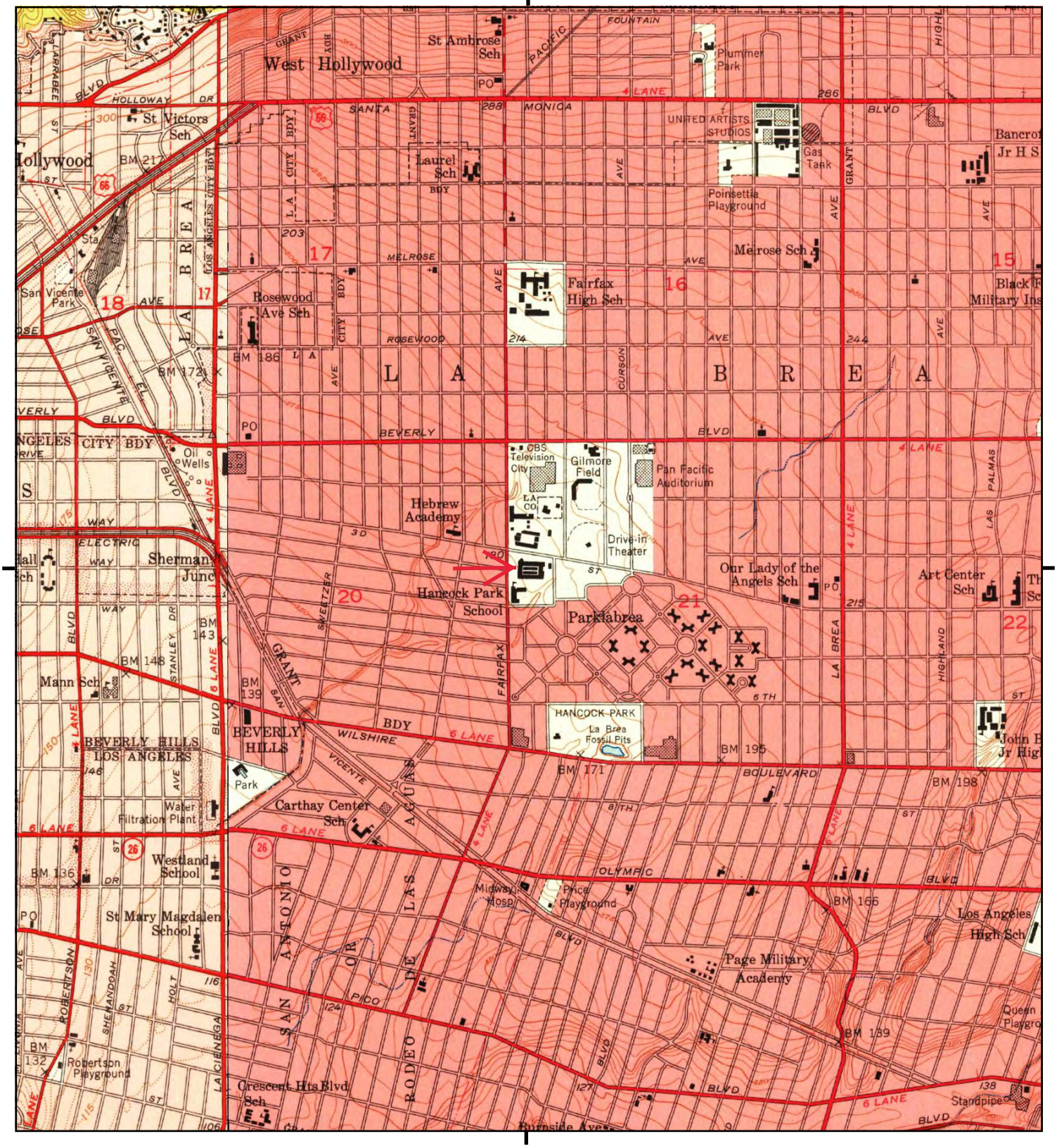
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 1966, 7.5-minute
W, Beverly Hills, 1966, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

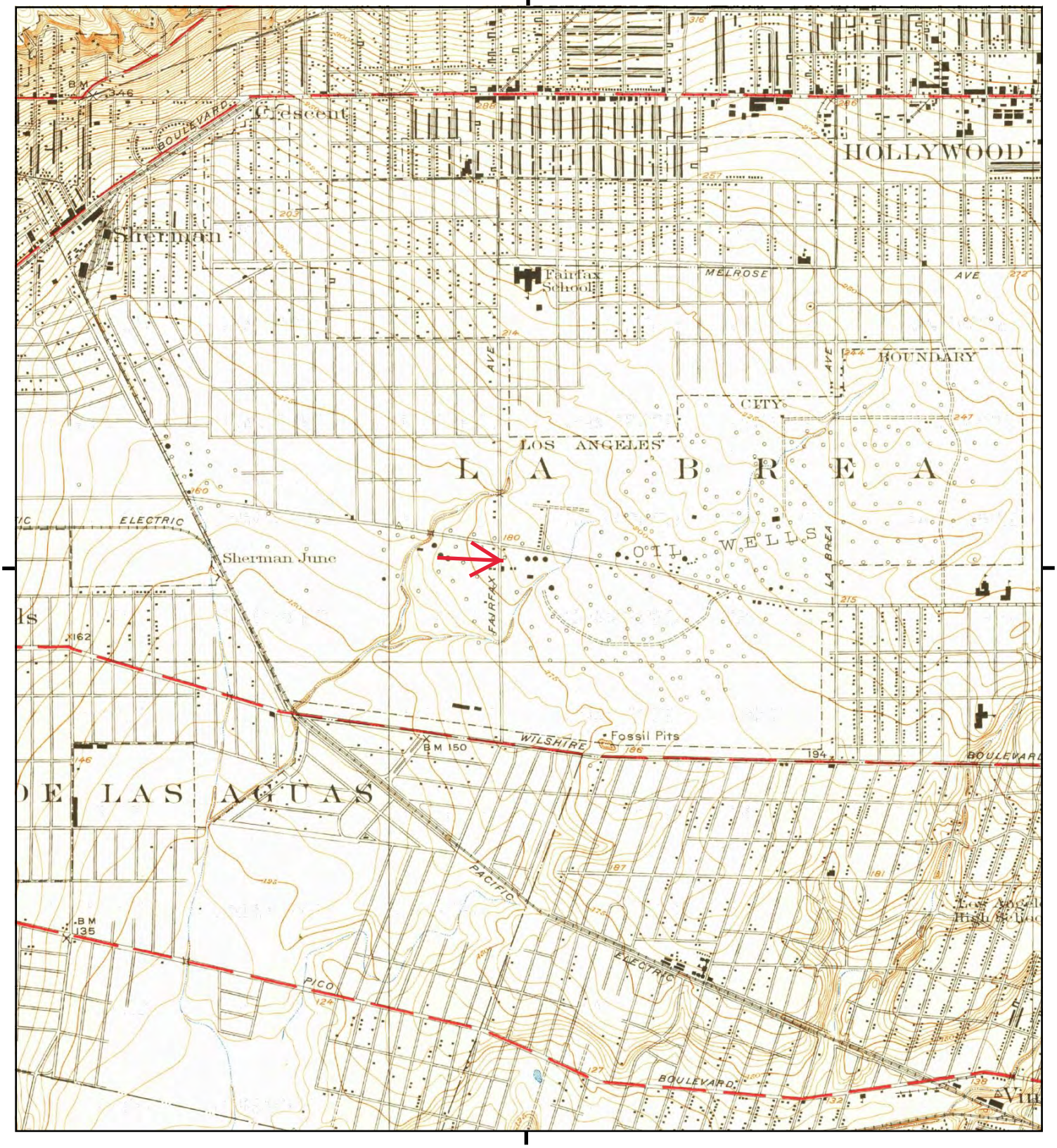
TP, Hollywood, 1953, 7.5-minute
W, Beverly Hills, 1950, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1926



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

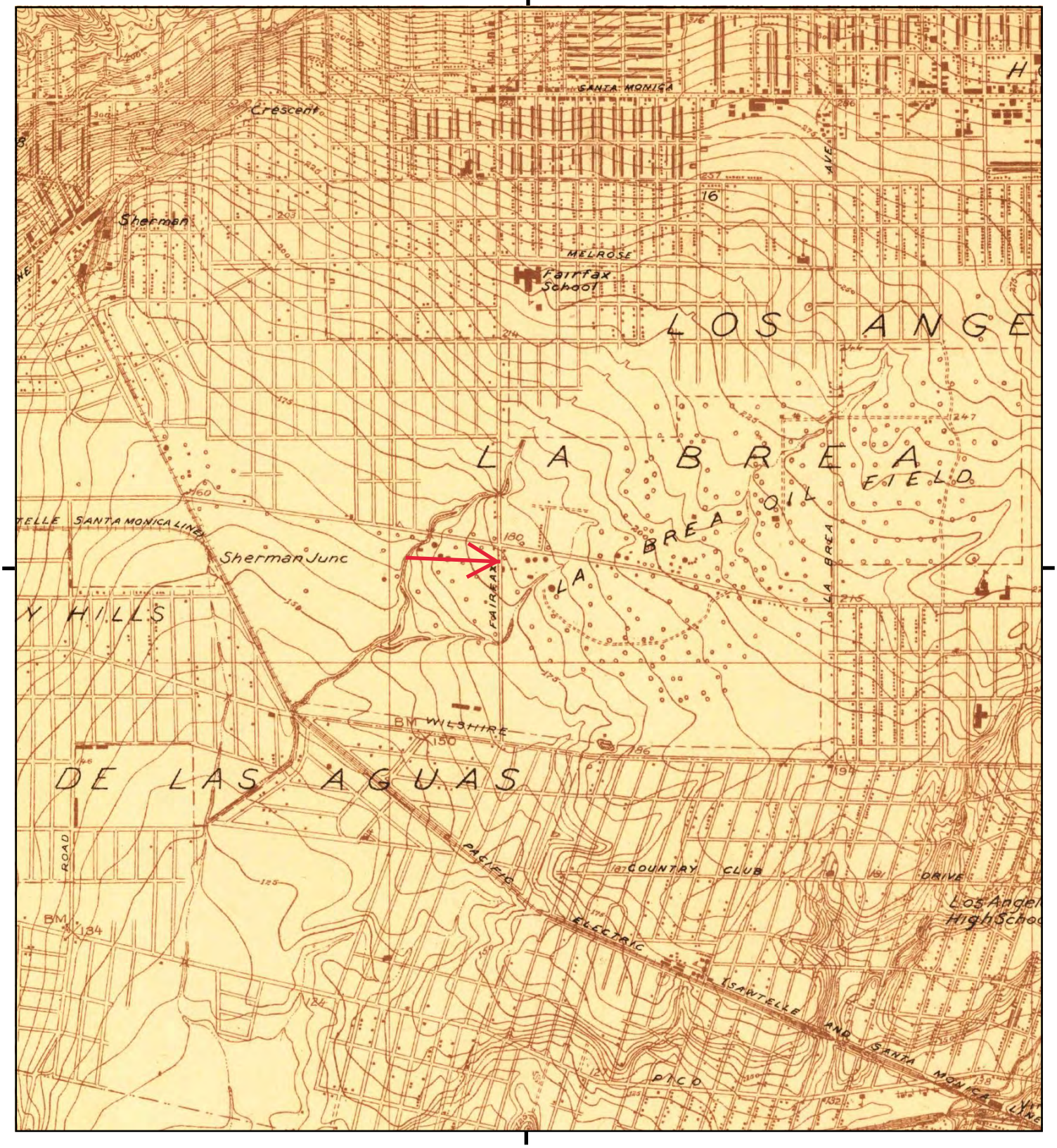
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 1926, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

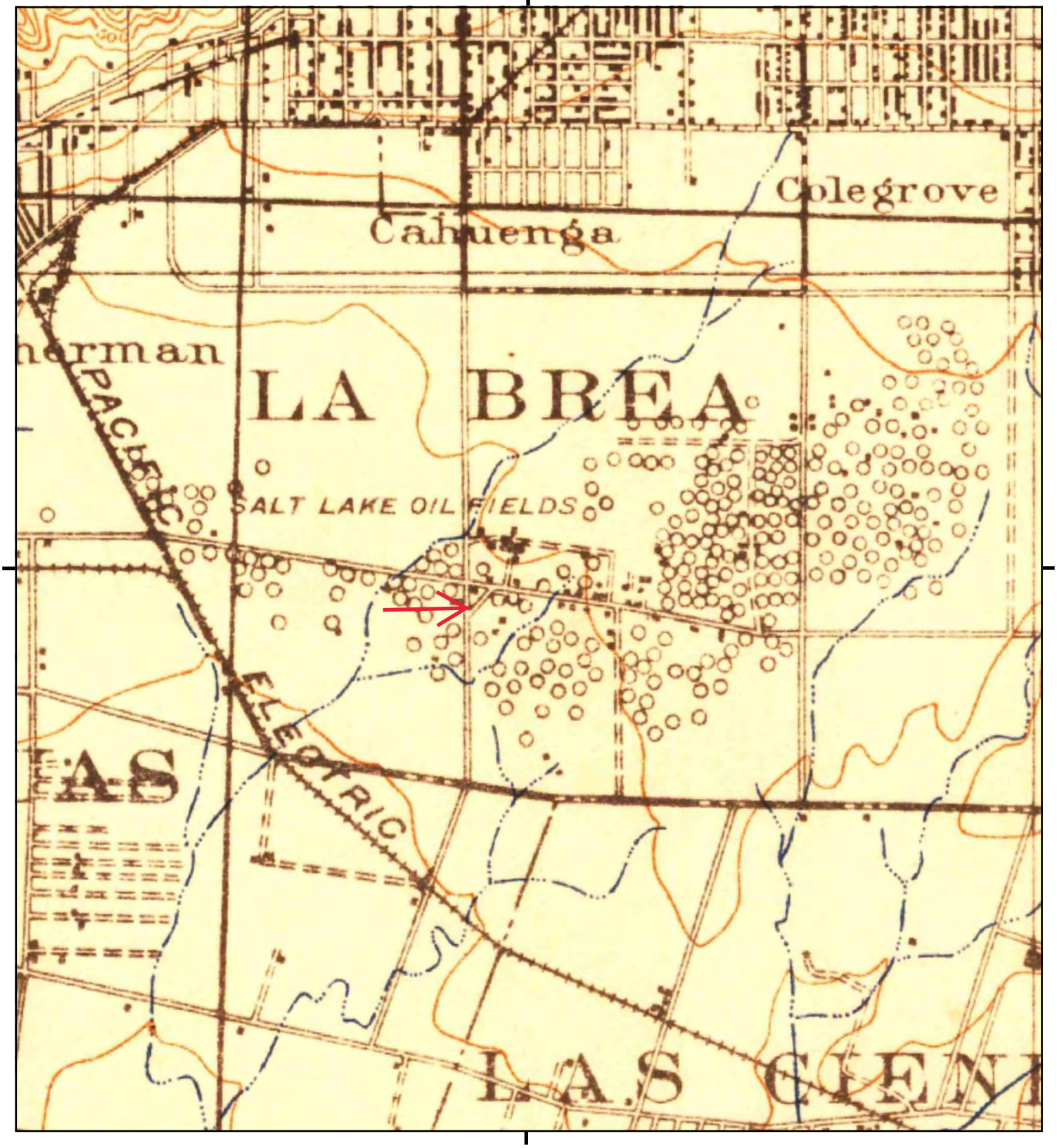
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Hollywood, 1924, 7.5-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

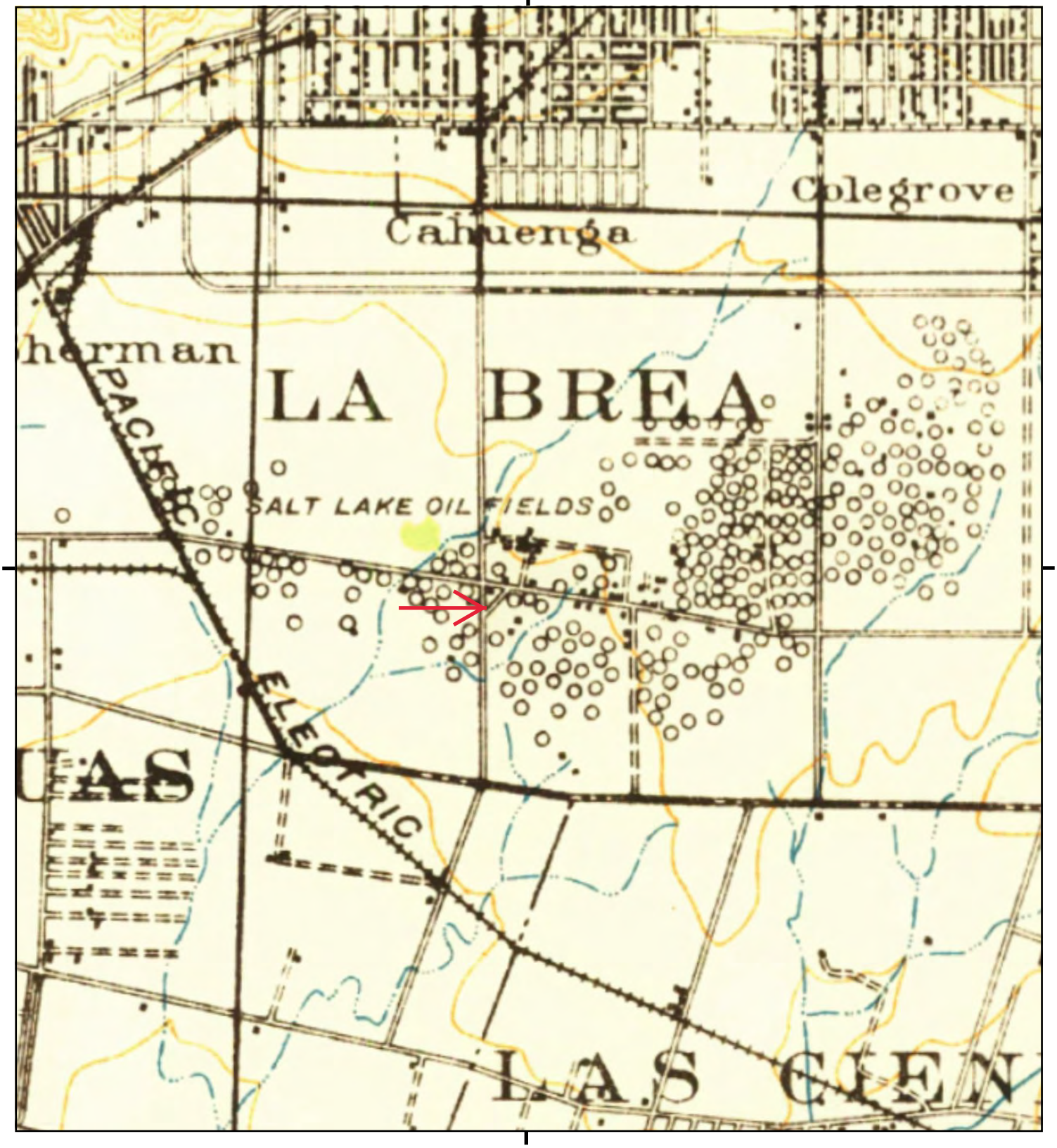
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1921, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

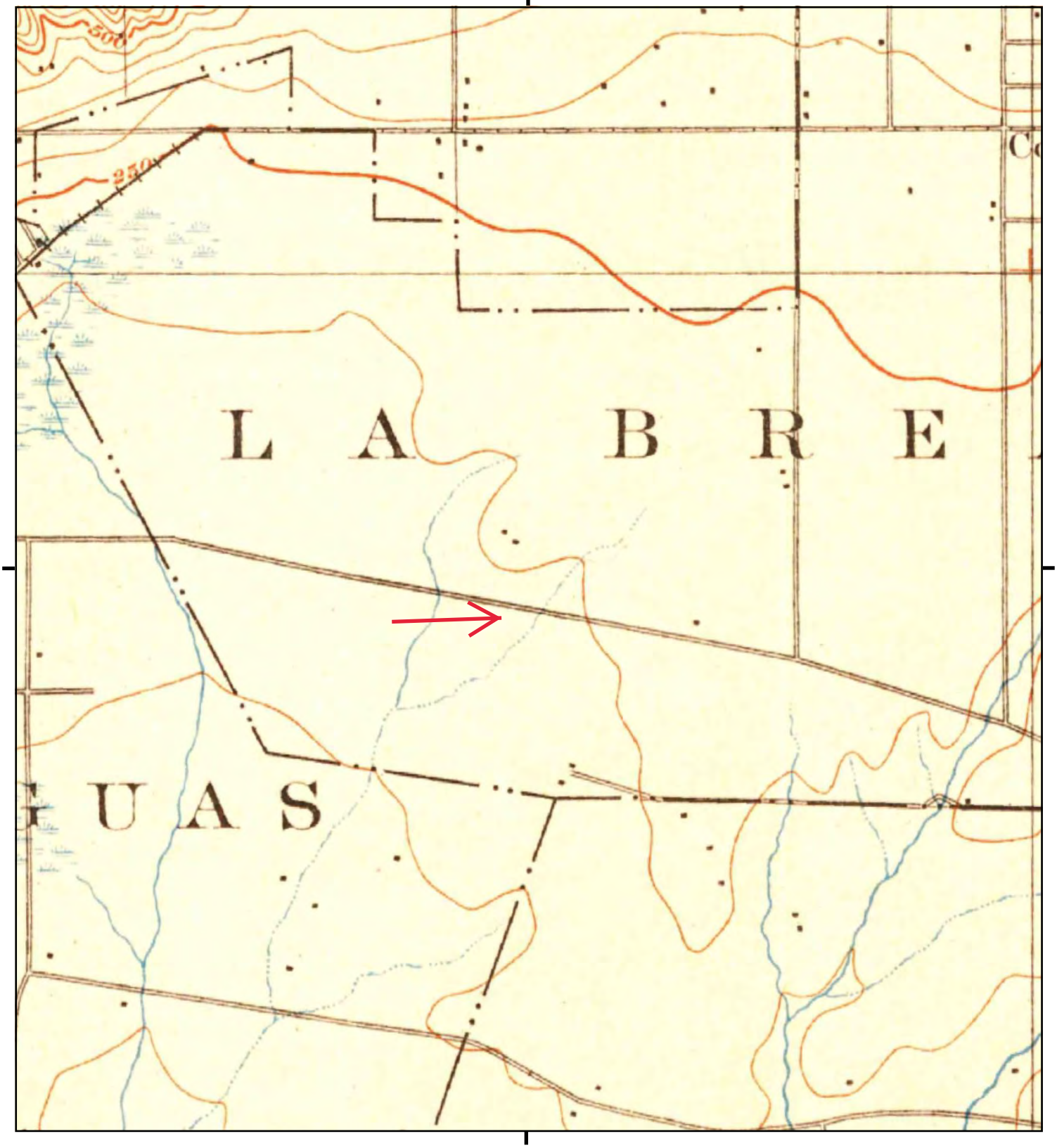
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, SANTA MONICA, 1920, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

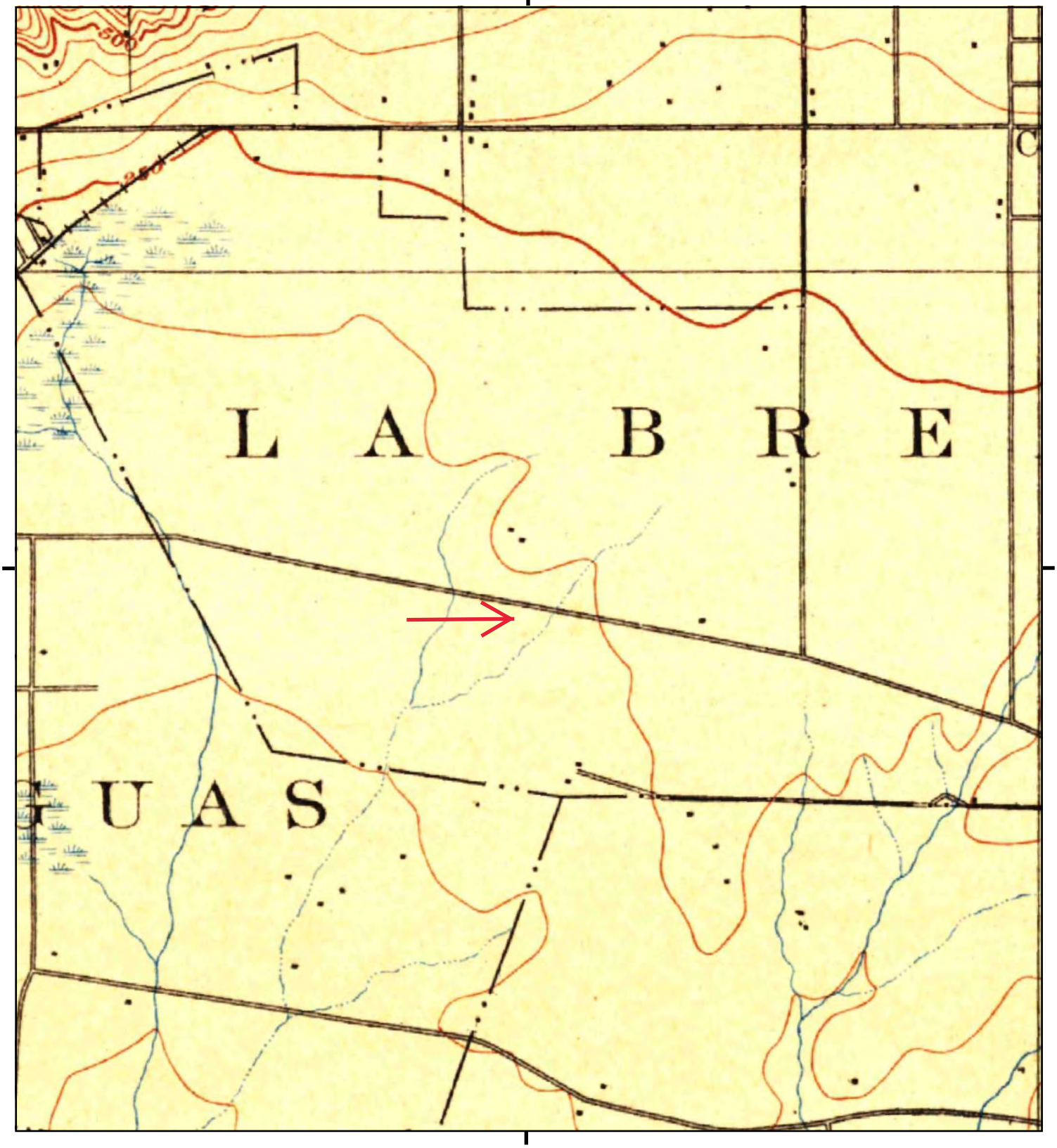
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1902, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

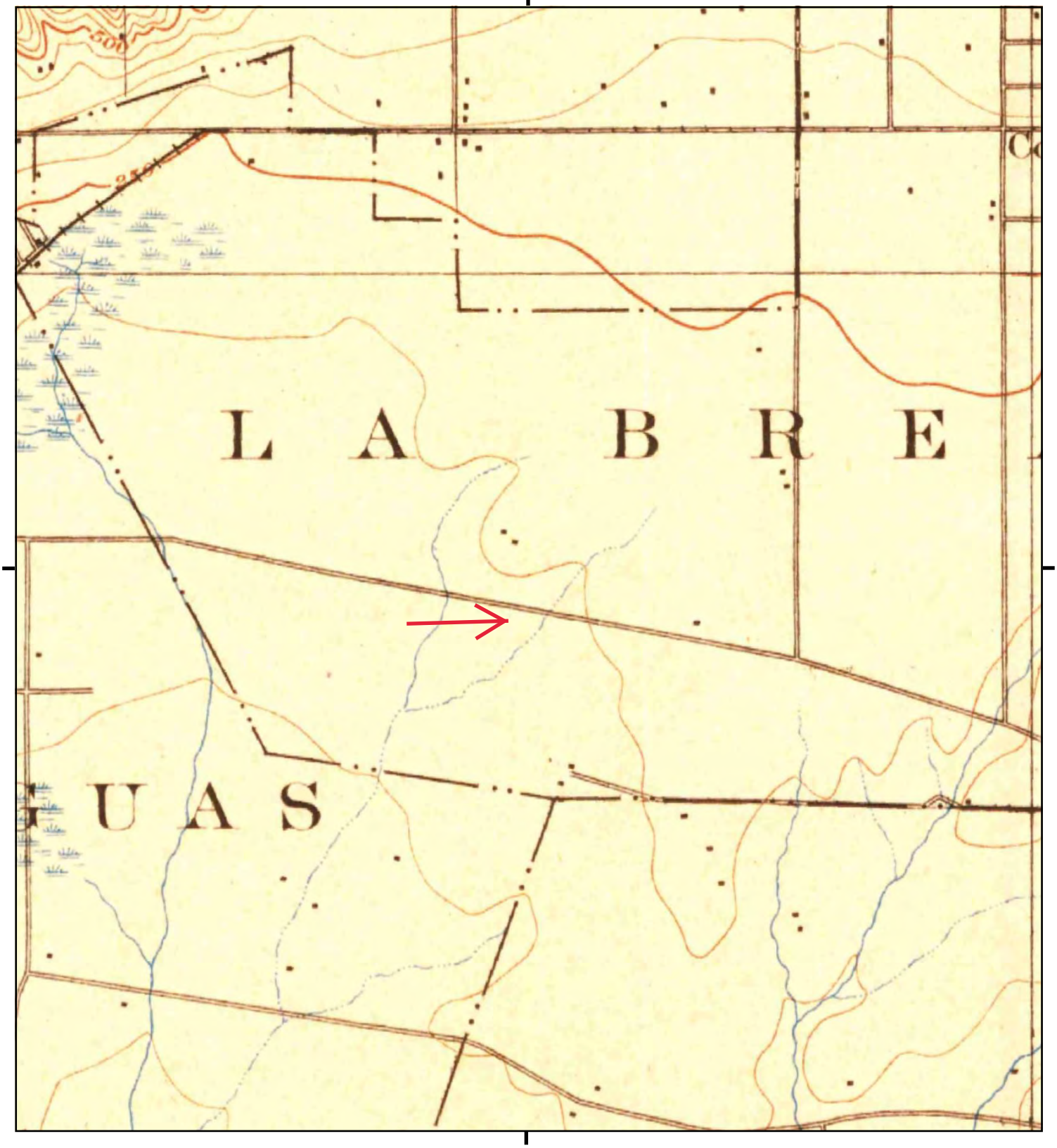
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1900, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

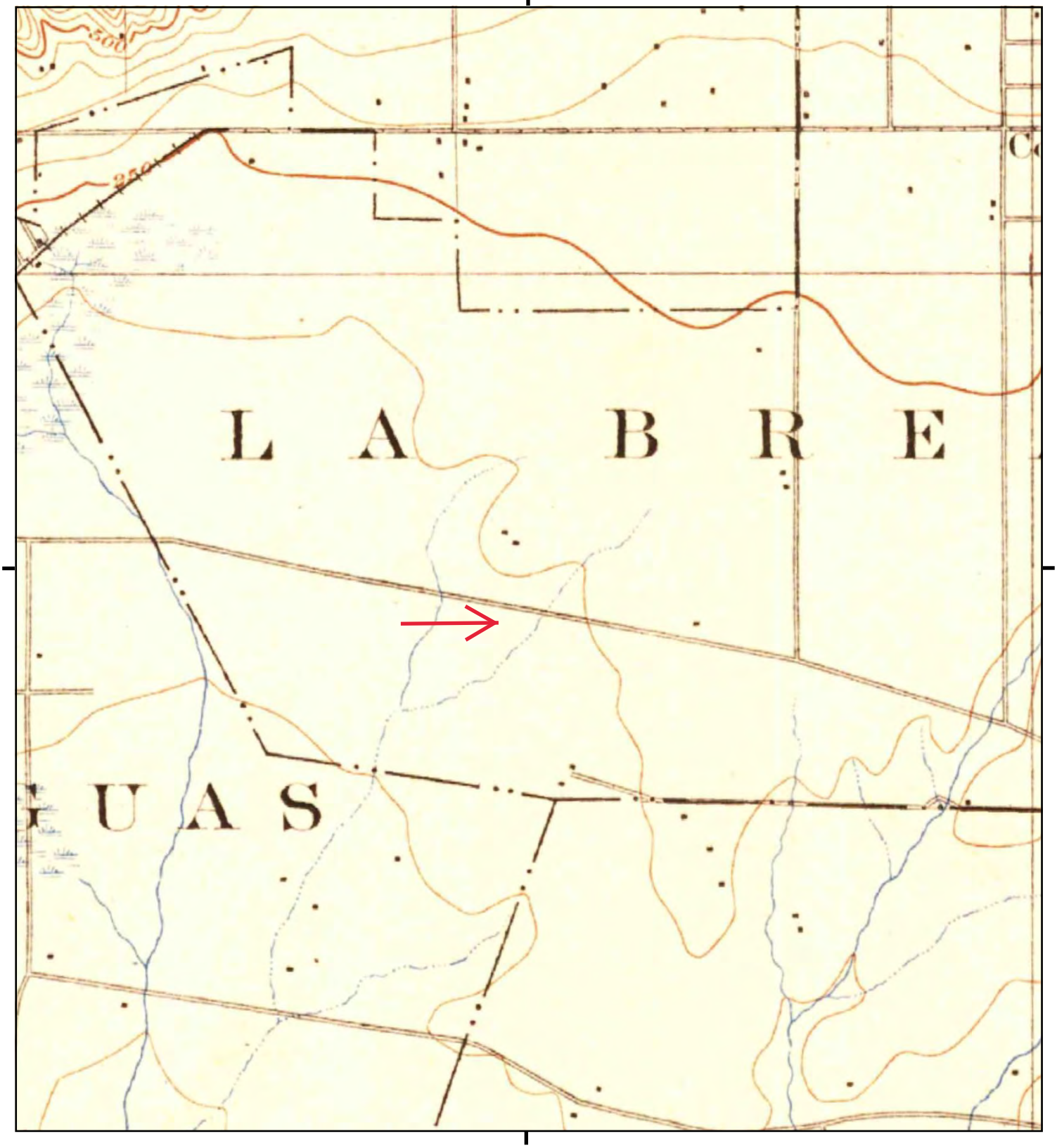
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1898, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

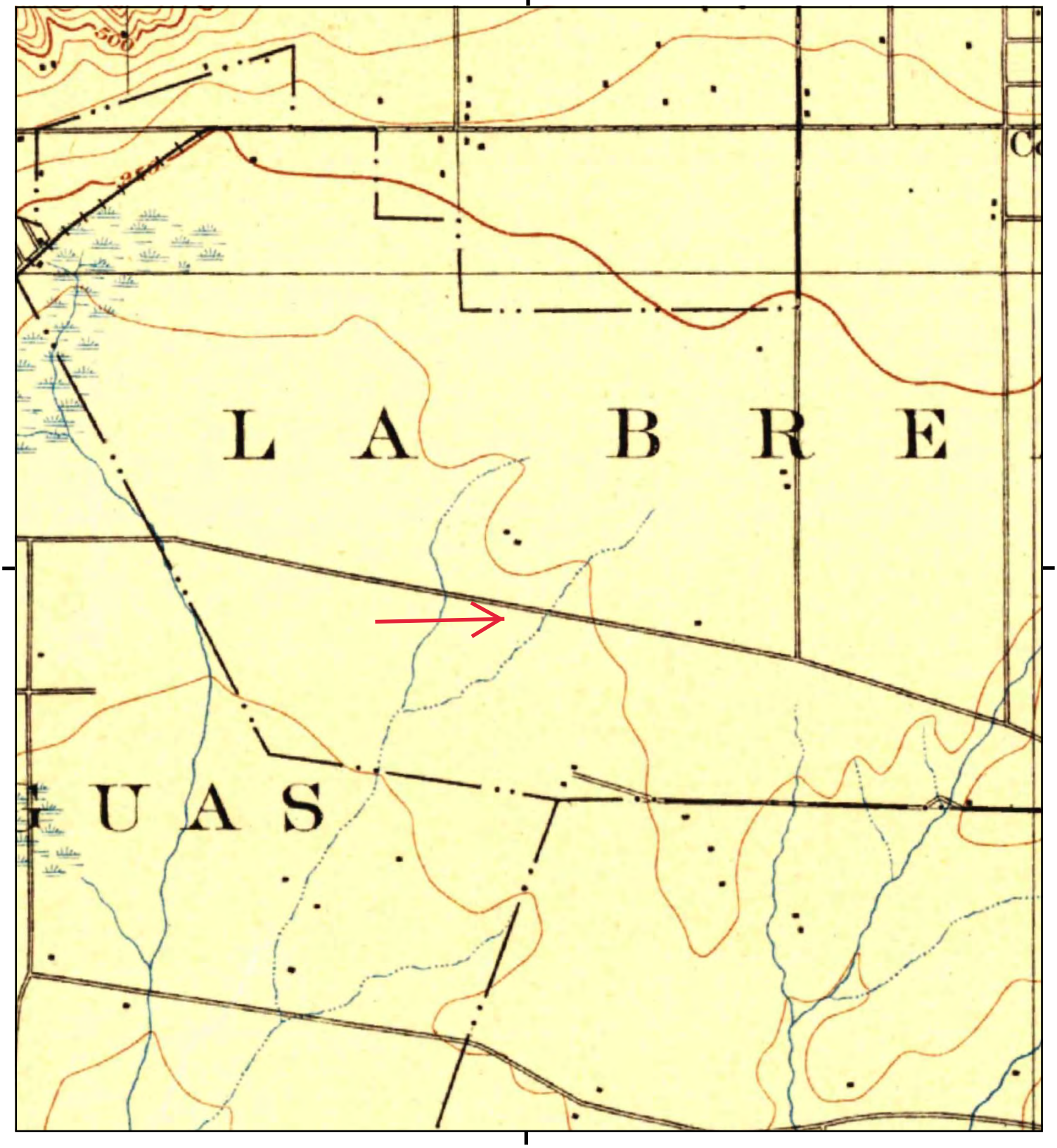
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1896, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1894, 15-minute

SITE NAME: Town & Country Retail
ADDRESS: 6310 W. Third Street
Los Angeles, CA 90036
CLIENT: ARCADIS U.S., Inc.

N

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036

Inquiry Number: 4930273.5
May 09, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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 1920 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 332 feet of the target property.

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

RECORD SOURCES

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

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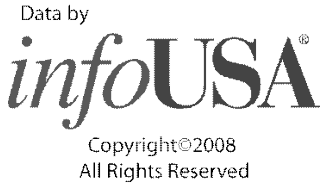

RESEARCH SUMMARY

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

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines & Company	-	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1986	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1966	Pacific Telephone	-	X	X	-
1965	Pacific Telephone	-	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	X	X	-
1957	Pacific Telephone	-	X	X	-
1956	Pacific Telephone	-	X	X	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	X	X	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Pacific Telephone & Telegraph Co.	-	X	X	-
1950	Pacific Telephone	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	X	X	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	X	X	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	X	X	-
	Los Angeles Directory Co.	X	X	X	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	X	X	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

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

Address	*Type*	*Findings*
6320 W. Third Street	Client Entered	X
6330 W. Third Street	Client Entered	X
6340 W. Third Strret	Client Entered	X
6350 W. Third Street	Client Entered	X
6360 W. Third Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

6310 W. Third Street
Los Angeles, CA 90036

FINDINGS DETAIL

Target Property research detail.

W 3RD

6310 W 3RD

Year	Uses	Source
1990	K MART DISCOUNT STORES STORE NO 7225	Pacific Bell
1986	K MART DISCOUNT STORES LOS ANGELES STORE NO 4007	Pacific Bell
1981	K MART DISCOUNT STORES LOS ANGELES STORE NO 7225	Pacific Telephone
1971	Britts Department Store	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
1933	MORGAN Jas P clk	Los Angeles Directory Co.
	MORGAN Saml S Abbie B oilwkr	Los Angeles Directory Co.

6320 W 3RD

Year	Uses	Source
1990	PAYLESS SHOE SOURCE	Pacific Bell
1986	VOLUME SHOES	Pacific Bell
1981	SHOE STOP	Pacific Telephone
1971	Karls Shoe Stores	Pacific Telephone
	KARLS SHOE STORES LTD Los Angeles & Orange County Stores	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6330 W 3RD

Year	Uses	Source
1990	STEWART S JEWELRY & HANDBAGS	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell

6340 W 3RD

Year	Uses	Source
1990	LEEDS IMPORTS	Pacific Bell

FINDINGS

Year	Uses	Source
1986	LEEDS IMPORTS	Pacific Bell
1981	TOWER TRAVEL & TOURS	Pacific Telephone
1971	Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6350 W 3RD

Year	Uses	Source
1986	RALPHS GROCERY COMPANY STORES LOS ANGELES APPETITE SHOP	Pacific Bell
1981	SAFEWAY STORES INC	Pacific Telephone

6360 W 3RD

Year	Uses	Source
1990	TOWN & COUNTRY CENTER STORES	Pacific Bell
1986	SAV-ON-DRUGSS INC	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1981	SAV ON DRUGS INC	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	Sav On Drugs	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

W 3RD APPETITE SHOP

6350 W 3RD APPETITE SHOP

Year	Uses	Source
1990	RALPHS GROCERY COMPANY STORES LOS ANGELES	Pacific Bell

W 3rd St

6310 W 3rd St

Year	Uses	Source
2014	KMART CORPORATION	EDR Digital Archive
	KMART STORES	EDR Digital Archive
	LITTLE CAESARS PIZZA	EDR Digital Archive
2010	ELECTRONIC FUNDS	EDR Digital Archive
	KMART CORPORATION	EDR Digital Archive
	KMART STORES	EDR Digital Archive

FINDINGS

W 3RD ST

6310 W 3RD ST

Year	Uses	Source
2006	CAESARS PIZZA	Haines Company, Inc.
	ELECTRNC FUNDS	Haines Company, Inc.
	KMART	Haines Company, Inc.
	KMART LTTL	Haines Company, Inc.
1976	Britts Department Store	Pacific Telephone
	PARK PLAZA BEAUTY SALON	Pacific Telephone
	Storez Britts Depertment Store	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Britts Dept Store	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6320 W 3RD ST

Year	Uses	Source
1976	KARLS SHOE STORES LTD	Pacific Telephone
	Los Angeles Stores	Pacific Telephone
	Storez Karls Shoe Stores	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Karls Shoe Stores	Pacific Telephone
	KARLS SHOE STORES Los Angeles Stores	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

W 3rd St

6330 W 3rd St

Year	Uses	Source
2010	SHOE CONNECTION	EDR Digital Archive
	UNITED MOBILE PHONES	EDR Digital Archive
	WIRELESS PHONES	EDR Digital Archive

W 3RD ST

6330 W 3RD ST

Year	Uses	Source
2006	PHONES	Haines Company, Inc.
	SHOE CONNECTION	Haines Company, Inc.
	UNITD MOBILE	Haines Company, Inc.
1976	Stewarts Jewelry & Handbags	Pacific Telephone

Year	Uses	Source
1976	Storez Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Continental Shoe Salon	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6340 W 3RD ST

Year	Uses	Source
2006	ANNAS LINENS	Haines Company, Inc.
1980	Tower Travel & Tours	Pacific Telephone
1976	Tower Travel & Tours	Pacific Telephone
1967	Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

W 3rd St

6350 W 3rd St

Year	Uses	Source
2014	WHOLE FOODS MARKET CAL INC	EDR Digital Archive
2010	WHOLE FOODS MARKET CAL INC	EDR Digital Archive

W 3RD ST

6350 W 3RD ST

Year	Uses	Source
2006	WHOLE FOODS	Haines Company, Inc.
1976	Safeway Stores Inc Customer Service For The Following Areas Los Angeles	Pacific Telephone

W 3rd St

6360 W 3rd St

Year	Uses	Source
2014	CVS PHARMACY INC	EDR Digital Archive
2010	CVS PHARMACY INC	EDR Digital Archive
	SAV-ON-DRUGS INC	EDR Digital Archive

W 3RD ST

6360 W 3RD ST

Year	Uses	Source
2006	SAV ON DRUGS	Haines Company, Inc.

Year	Uses	Source
1976	SAV ON DRUGS INC Los Angeles	Pacific Telephone
	Storez Sav On Drugs Inc	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Sav On Drugs	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

W 3RD STORE

6350 W 3RD STORE

Year	Uses	Source
1990	RALPHS GROCERY COMPANY STORES LOS ANGELES	Pacific Bell

W. Third Street

6320 W. Third Street

Year	Uses	Source
1990	PAYLESS SHOE SOURCE	Pacific Bell
1986	VOLUME SHOES	Pacific Bell
1981	SHOE STOP	Pacific Telephone
1976	KARLS SHOE STORES LTD	Pacific Telephone
	Los Angeles Stores	Pacific Telephone
	Storez Karls Shoe Stores	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	Karls Shoe Stores	Pacific Telephone
	KARLS SHOE STORES LTD Los Angeles & Orange County Stores	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
1967	Karls Shoe Stores	Pacific Telephone
	KARLS SHOE STORES Los Angeles Stores	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6330 W. Third Street

Year	Uses	Source
2006	PHONES	Haines Company, Inc.
	SHOE CONNECTION	Haines Company, Inc.
	UNITD MOBILE	Haines Company, Inc.
1990	STEWART S JEWELRY & HANDBAGS	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1976	Stewarts Jewelry & Handbags	Pacific Telephone

Year	Uses	Source
1976	Storez Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Continental Shoe Salon	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6350 W. Third Street

Year	Uses	Source
2006	WHOLE FOODS	Haines Company, Inc.
1990	RALPHS GROCERY COMPANY STORES LOS ANGELES	Pacific Bell
1986	RALPHS GROCERY COMPANY STORES LOS ANGELES APPETITE SHOP	Pacific Bell
1981	SAFEWAY STORES INC	Pacific Telephone
1976	Safeway Stores Inc Customer Service For The Following Areas Los Angeles	Pacific Telephone

6360 W. Third Street

Year	Uses	Source
2006	SAV ON DRUGS	Haines Company, Inc.
1990	TOWN & COUNTRY CENTER STORES	Pacific Bell
1986	SAV-ON-DRUGSS INC	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1981	SAV ON DRUGS INC	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1976	SAV ON DRUGS INC Los Angeles	Pacific Telephone
	Storez Sav On Drugs Inc	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	Sav On Drugs	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
1967	Sav On Drugs	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

W. Third Strret

6340 W. Third Strret

Year	Uses	Source
2006	ANNAS LINENS	Haines Company, Inc.
1990	LEEDS IMPORTS	Pacific Bell
1986	LEEDS IMPORTS	Pacific Bell
1981	TOWER TRAVEL & TOURS	Pacific Telephone
1980	Tower Travel & Tours	Pacific Telephone

FINDINGS

Year	***Uses***	***Source***
1976	Tower Travel & Tours	Pacific Telephone
1971	Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
1967	Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

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

3RD ST W

6306 3RD ST W

Year	Uses	Source
1951	W 3rd Town & Country Mkt Auto Wash	Pacific Telephone & Telegraph Co.

6333 3RD ST W

Year	Uses	Source
1951	W 3rd Gills Old Fashioned Ice Cream	Pacific Telephone & Telegraph Co.
	W 3rd Johnnie Silveiras Ice Cream	Pacific Telephone & Telegraph Co.
	W 3rd Pelwhite Co fish	Pacific Telephone & Telegraph Co.
	W 3rd Toneys Earl Bakery	Pacific Telephone & Telegraph Co.
	W 3rd Yank Al citrus	Pacific Telephone & Telegraph Co.
	W 3rd	Pacific Telephone & Telegraph Co.
	Cotton Corner The	Pacific Telephone & Telegraph Co.
	Farmers Mkt Hall John & Billie vegetbls	Pacific Telephone & Telegraph Co.
	Farmers Market Ocean Foods Fish Stall	Pacific Telephone & Telegraph Co.
	N Farmers Mkt Vernons Coffee Bar	Pacific Telephone & Telegraph Co.
	Greyhound Bus Lines	Pacific Telephone & Telegraph Co.
	Little Mending Shop The reweaving	Pacific Telephone & Telegraph Co.
	Farmers Mkt Glenns Egg Stall	Pacific Telephone & Telegraph Co.
	Farmers Mkt Puritan Poultry	Pacific Telephone & Telegraph Co.
	Puritan Poultry	Pacific Telephone & Telegraph Co.
	Farmers Mkt Snedecors Gift Shop	Pacific Telephone & Telegraph Co.
	Farmers Market Louis Cuisine restrnt	Pacific Telephone & Telegraph Co.
	Louis Cuisine restrnt	Pacific Telephone & Telegraph Co.
	Farmers Mkt W 3rd & Fairfax Av Fish & Chips Old London	Pacific Telephone & Telegraph Co.
	Old London Fish & Chips	Pacific Telephone & Telegraph Co.
	Castillos Spanish Kitchen	Pacific Telephone & Telegraph Co.
	Boris Juice & Salad Bar	Pacific Telephone & Telegraph Co.
	Farmers Market Boris Juice & Salad Bar	Pacific Telephone & Telegraph Co.
	Farmers Mkt Gadget Nook	Pacific Telephone & Telegraph Co.
	Farmers Mkt Tusquellas John E meat mkt	Pacific Telephone & Telegraph Co.
	Gill Old Fashioned Ice Cream	Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1951	Farmers Mkt Beesons Coffee Shop	Pacific Telephone & Telegraph Co.
	Matlafs Poultry & Egg Ranch	Pacific Telephone & Telegraph Co.
	Michaels Cheesecake	Pacific Telephone & Telegraph Co.
	Farmers Mkt Yank Albert citrus prodc	Pacific Telephone & Telegraph Co.
	Farmers Market Magic Nut Shop	Pacific Telephone & Telegraph Co.
	Magic Nut Shop	Pacific Telephone & Telegraph Co.
	Farmers Mkt The Jelly Jar	Pacific Telephone & Telegraph Co.
	Farmers Mkt Desert Date Shop	Pacific Telephone & Telegraph Co.
	Reordan Margaret D Desert Date Shop	Pacific Telephone & Telegraph Co.
	Farmers Market Chinese Kitchen	Pacific Telephone & Telegraph Co.
	Farmers Mkt Floyds	Pacific Telephone & Telegraph Co.
	Farmers Mkt Morgans Garden Shop	Pacific Telephone & Telegraph Co.
	Morgans Garden Shop	Pacific Telephone & Telegraph Co.
	Farmers Market Variety	Pacific Telephone & Telegraph Co.
	B Farmers Mkt Magliano Paul jwlr	Pacific Telephone & Telegraph Co.
	B Magliano Paul jwlr	Pacific Telephone & Telegraph Co.
	Dodge Mary Korn Krib	Pacific Telephone & Telegraph Co.
	Farmers Mkt Dodge Mary Korn Krib	Pacific Telephone & Telegraph Co.
	Farmers Mkt Patsy Wrapping Serv	Pacific Telephone & Telegraph Co.
	Patsy Wrapping Serv	Pacific Telephone & Telegraph Co.
	Wrapping Service Patsy Farmers Market	Pacific Telephone & Telegraph Co.
	Farmers Market Feed Rite Pet Shop	Pacific Telephone & Telegraph Co.
	Feed Rite Pet Shop	Pacific Telephone & Telegraph Co.
	Weis Jack Feed Rite Pet Shop	Pacific Telephone & Telegraph Co.
	Farmers Mkt Wayne Gail accesrs	Pacific Telephone & Telegraph Co.
	Wayne Gail accesrs	Pacific Telephone & Telegraph Co.
	Farmers Mkt Taxco Gift Shop	Pacific Telephone & Telegraph Co.
	Taxco Gift Shop	Pacific Telephone & Telegraph Co.
	W 3rd Arnolds Coffee Bar	Pacific Telephone & Telegraph Co.
	W 3rd Bob White Productions	Pacific Telephone & Telegraph Co.
	W 3rd Brocks Candies	Pacific Telephone & Telegraph Co.
	W 3rd Bryans Pit Barbecue	Pacific Telephone & Telegraph Co.
	W 3rd Curl R B Curls Fine Foods	Pacific Telephone & Telegraph Co.
	W 3rd Curls Fine Foods	Pacific Telephone & Telegraph Co.
	W 3rd Danas	Pacific Telephone & Telegraph Co.
	W 3rd Davidson Meats	Pacific Telephone & Telegraph Co.
	W 3rd Farmerette Beauty Shop	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt fish & oyster bar	Pacific Telephone & Telegraph Co.

Year	Uses	Source
1951	W 3rd Farmers Mkt Alexanders Grocery	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Market Arnolds Coffee Bar	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Brocks Candies	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Bryans Pit Barbecue	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Burbank Stall Vegetables	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Danas	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Farmerette Beauty Shop The	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Market Johnnie Silveiras Ice Cream	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Market Michaels Cheesecake	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt Taylor Sausage Co	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Market Toneys Earl Bakery	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt W 3rd & Fairfx Bell Henry F fountn lunch	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Market W 3rd & Fairfax Av Colonial Kitchens Exch	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt W 3rd & Fairfax Av Curls Fine Food	Pacific Telephone & Telegraph Co.
	W 3rd Farmers Mkt W 3rd & Fairfx Av Ocean Foods Fish Stall	Pacific Telephone & Telegraph Co.

FAIRFAX AVE S

327 FAIRFAX AVE S

Year	Uses	Source
1951	S Fairfx Cali Cuba Cigar Co	Pacific Telephone & Telegraph Co.

329 FAIRFAX AVE S

Year	Uses	Source
2000	XXXX	Haines & Company
1951	S Fairfx La Nel ladies apprl	Pacific Telephone & Telegraph Co.

331 FAIRFAX AVE S

Year	Uses	Source
1951	S Fairfx Fashion Mart of Calif The	Pacific Telephone & Telegraph Co.

335 FAIRFAX AVE S

Year	Uses	Source
1951	S Fairfx Knit Nook	Pacific Telephone & Telegraph Co.

FINDINGS

349 FAIRFAX AVE S

Year	Uses	Source
2000	KINGS CLE	Haines & Company

350 FAIRFAX AVE S

Year	Uses	Source
2000	XXXX	Haines & Company
1951	S Fairfx	Pacific Telephone & Telegraph Co.
	Hammond Ollie Steak House town & country br	Pacific Telephone & Telegraph Co.
	Hammonds Ollie Steak House town & country br	Pacific Telephone & Telegraph Co.
	Ollie Hammonds Town & Country Steak House	Pacific Telephone & Telegraph Co.
	Town & Country Market Inc Ollie Hammonds Steak House	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Baskin Robbins Ice Cream Co	Pacific Telephone & Telegraph Co.
	Saunders Poultry Mkt	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Saunders Poultry Mkt	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Farm Fresh Produce	Pacific Telephone & Telegraph Co.
	Colony House The restrnt	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Colony House The	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc smoke shop	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Tavern Shop houseware	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc La Paloma Spanish foods	Pacific Telephone & Telegraph Co.
	Margo of Calif	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Stone Ruth accesrs	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc juice bar	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Finkle & Mandelbaum groceries	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Town & Country Delicatessen	Pacific Telephone & Telegraph Co.
	Seafood Mart	Pacific Telephone & Telegraph Co.
	Town & Country Market Inc seafood mart	Pacific Telephone & Telegraph Co.
	Elite Gift Studio	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Elite Gift Studio	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Fishers Hamburgers	Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1951	Neill Florence Candies	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Florence Neill Candies	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Star of India	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc pharmacy	Pacific Telephone & Telegraph Co.
	Town & Country Pharmacy	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Jade Garden	Pacific Telephone & Telegraph Co.
	Town and Country Market Inc Cordells French Cuisine	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Mandels Jewlry	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Pastry Shop	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Yolandas Restaurant	Pacific Telephone & Telegraph Co.
	Yolandas Restaurant	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Meyers Barbecue	Pacific Telephone & Telegraph Co.
	Hawaiian Candies & Nuts Ltd	Pacific Telephone & Telegraph Co.
	Sawtelle Robt P Hawaiian Candies & Nuts Ltd	Pacific Telephone & Telegraph Co.
	Kips Toyland	Pacific Telephone & Telegraph Co.
	Mei Wings	Pacific Telephone & Telegraph Co.
	Alexandre Antiques	Pacific Telephone & Telegraph Co.
	Popoff Alexandre Alexandre Antiques	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Kips Toyland	Pacific Telephone & Telegraph Co.
	Town & Country Gifts	Pacific Telephone & Telegraph Co.
	Fink Henry Barber Shop	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Town & Country Sport Shop	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Bird House & Pet Supplies The	Pacific Telephone & Telegraph Co.
	Town and Country Market Inc Maxon	Pacific Telephone & Telegraph Co.
	Patio Knit Shop	Pacific Telephone & Telegraph Co.
	Ross Ranch Fruits & Vegetables	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc C & S Fruit & Produce Mkt	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc music & appliance shop	Pacific Telephone & Telegraph Co.
	Friedman Louis coins & stamps	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Cleaners	Pacific Telephone & Telegraph Co.
	Town & Country Flowers	Pacific Telephone & Telegraph Co.
	Town & Country Flowers	Pacific Telephone & Telegraph Co.

Year	Uses	Source
1951	Town & Country Mkt Inc flowers	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc flowers	Pacific Telephone & Telegraph Co.
	Town & Country Mkt Inc Chuck Jordans lapidaries	Pacific Telephone & Telegraph Co.
	S Fairfx Av Don Rito Renard Cosmetics	Pacific Telephone & Telegraph Co.
	S Fairfx Markys Meats	Pacific Telephone & Telegraph Co.
	S Fairfx Av Renard Don Rito Cosmetics	Pacific Telephone & Telegraph Co.
	S Fairfx Town & Country Mkt	Pacific Telephone & Telegraph Co.
	S Fairfx Town & Country Mkt Inc administration office	Pacific Telephone & Telegraph Co.
	S Fairfx Av Town & Country Mkt Inc beauty salon	Pacific Telephone & Telegraph Co.
	S Fairfx Town & Country Market Inc European Sausage Kitchen	Pacific Telephone & Telegraph Co.
	S Fairfx Town & Country Mkt Inc Seegers Quality Meats	Pacific Telephone & Telegraph Co.

351 FAIRFAX AVE S

Year	Uses	Source
2000	KARABEL DAMCEWEAR UNLIMITED	Haines & Company
	CARABEL DANCEWEAR 323+99 S	Haines & Company
1951	S Fairfx Av Chief Drive In Clning Plant	Pacific Telephone & Telegraph Co.

353 FAIRFAX AVE S

Year	Uses	Source
2000	KARABEL DANCEWEAR	Haines & Company
	CARABEL DANCE WEAR	Haines & Company
1951	S Fairfx Davis John C rl est div	Pacific Telephone & Telegraph Co.
	S Fairfx Davis John C rl est	Pacific Telephone & Telegraph Co.

355 FAIRFAX AVE S

Year	Uses	Source
2000	LARTISAN	Haines & Company

357 FAIRFAX AVE S

Year	Uses	Source
2000	HOLLYWD FLOWERS WHOLESALE CO 234 S	Haines & Company

359 FAIRFAX AVE S

Year	Uses	Source
2000	LONDGREN Kristin	Haines & Company

Year	Uses	Source
1951	S Fairfx Juniorville chldrns apprl	Pacific Telephone & Telegraph Co.

361 FAIRFAX AVE S

Year	Uses	Source
2000	XXXX	Haines & Company
1951	S Fairfx Av Tony Sloan Beauty Salon	Pacific Telephone & Telegraph Co.
	S Fairfx Av Tony Sloan Beauty Salon	Pacific Telephone & Telegraph Co.

363 FAIRFAX AVE S

Year	Uses	Source
2000	POSTAL UNLIMITED	Haines & Company
	AHKEVA SALES MARKETING FIRM	Haines & Company
	EL BURRITO JUNIOR	Haines & Company
	V N C MEDICAL SUPPLIES	Haines & Company
1951	S Fairfx Bronz Cake Shop	Pacific Telephone & Telegraph Co.

365 FAIRFAX AVE S

Year	Uses	Source
2000	PIZZA WORLD	Haines & Company
1951	S Fairfx Av Lurie Wm Frankfort Co Inc rltrs	Pacific Telephone & Telegraph Co.
	S Fairfx Av Katz Jack J pub acct	Pacific Telephone & Telegraph Co.
	S Fairfx Frankfort Norman B Frankfort Co Inc rltrs	Pacific Telephone & Telegraph Co.
	S Fairfx Frankfort & Klein See Frankfort Co Inc rltrs	Pacific Telephone & Telegraph Co.
	S Fairfx Frankfort Co Inc rltrs	Pacific Telephone & Telegraph Co.

370 FAIRFAX AVE S

Year	Uses	Source
2000	C A BREATH CLINIC	Haines & Company

371 FAIRFAX AVE S

Year	Uses	Source
2000	MAS AUTO SERVICE	Haines & Company
1951	S Fairfx Texaco Service Station Dealers 4th & Fairfx Stn	Pacific Telephone & Telegraph Co.

FINDINGS

S Fairfax Ave

300 S Fairfax Ave

Year	Uses	Source
2014	TOYOTA PARTS SOLUTIONS INC	EDR Digital Archive
	CITI PWM	EDR Digital Archive
	THIRD FAIRFAX LLC	EDR Digital Archive
	CITIBANK N A	EDR Digital Archive
	TOYOTA PARTS SOLUTIONS INC	EDR Digital Archive
	CITI PWM	EDR Digital Archive
	CITIBANK N A	EDR Digital Archive
	THIRD FAIRFAX LLC	EDR Digital Archive
2010	THIRD FAIRFAX LLC	EDR Digital Archive
	CITIBANK NA	EDR Digital Archive
	GATES A AA GARAGE DOORS AND	EDR Digital Archive
	CITIBANK NA	EDR Digital Archive
	THIRD FAIRFAX LLC	EDR Digital Archive
	GATES A AA GARAGE DOORS AND	EDR Digital Archive

S FAIRFAX AVE

300 S FAIRFAX AVE

Year	Uses	Source
1990	NEIGHBORS OF WATTS	Pacific Bell
	CALIFORNIA FEDERAL SAVINGS OFFICES LOS ANGELES	Pacific Bell
1986	NEIGHBORS OF WATTS	Pacific Bell
	CALIFORNIA FEDERAL LOS ANGELES AREA OFFICES LOS ANGELES	Pacific Bell
	BRENTWOOD SAVING & LOAN ASSN	Pacific Bell
1929	NELSON John A lab	Los Angeles Directory Co.

301 S FAIRFAX AVE

Year	Uses	Source
1991	COLUMBIA SAVINGS AND LOAN ASSOCIATION	Pacific Bell
1986	UNITED AUTO REPAIR & SERVICE	Pacific Bell
1985	AIR CAR RENTAL INC	Pacific Bell
1981	UNION OIL DLRS SERVICE STNS	Pacific Telephone
	GARO S UNION	Pacific Telephone
1971	Parviz Union Oil Service	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	Union Oil Serv Stns Contiuned Los Angeles Continued	Pacific Telephone
	Golden Eagle Serv Stn	Pacific Telephone
1942	Standard Stations Inc gas stas	Los Angeles Directory Co.
1929	Bunch Guy M Bessie real est	Los Angeles Directory Co.

310 S FAIRFAX AVE

Year	Uses	Source
1933	REAVIS Norris A Daris K oilwkr	Los Angeles Directory Co.
	HAMELL Edw B Louise oilwkr	Los Angeles Directory Co.

325 S FAIRFAX AVE

Year	Uses	Source
1986	COMFORT SPORTS SHOES	Pacific Bell
1981	EXPRESS FOTOLAB INC	Pacific Telephone
1976	Excell Photo Fairfax	Pacific Telephone
1971	Exotic Snack De Lite	Pacific Telephone
1958	Langermann Furrier	Pacific Telephone

327 S FAIRFAX AVE

Year	Uses	Source
1986	FAIRFAX LOCK & KEY SERVICE	Pacific Bell
1985	FAIRFAX LOCK & KEY SERVICE	Pacific Bell
1981	FAIRFAX LOCK & KEY SERVICE	Pacific Telephone
1980	Fairfax Lock & Key Service	Pacific Telephone
1976	Trank Harry Icksmth	Pacific Telephone
	FAIRFAX LOCK & KEY SERVICE	Pacific Telephone
1975	FAIRFAX LOCK & KEY SERVICE	Pacific Telephone
1958	Cali Cuba Cigar Co	Pacific Telephone

329 S FAIRFAX AVE

Year	Uses	Source
1986	ZINA	Pacific Bell
1981	MANNYS BARBER SHOP	Pacific Telephone
1976	Mannys Barber Shop	Pacific Telephone
1971	Mannys Barber Shop	Pacific Telephone
1958	Reiss Morris G pub acct	Pacific Telephone
	Beverly Wilshire Detectives	Pacific Telephone
	Blauvelt Fred R tax counsllr	Pacific Telephone
	Reiss & Blauvelt	Pacific Telephone

FINDINGS

331 S FAIRFAX AVE

Year	Uses	Source
1986	SAM S CUSTOM TAILOR SHOP	Pacific Bell
1981	SAMS TAILOR SHOP	Pacific Telephone
1976	Maxs Tailor Shop	Pacific Telephone
1971	Maxs Tailor Shop	Pacific Telephone
1958	Scharfeld J tlrs	Pacific Telephone

333 S FAIRFAX AVE

Year	Uses	Source
1981	FORUM MIWA BEAUTY SALON	Pacific Telephone
1971	Riera Bob Beauty Salon	Pacific Telephone
	Bobs Beauty Salon	Pacific Telephone
1962	GALE HAUI DESIGN	Pacific Telephone
1958	Salon No Two	Pacific Telephone
	Talk of the Town Coiffeur Inc	Pacific Telephone

335 S FAIRFAX AVE

Year	Uses	Source
1986	FAIRFAX BARGAIN GENERAL MERCHANDISE	Pacific Bell
1971	Henning Eugene L	Pacific Telephone

337 S FAIRFAX AVE

Year	Uses	Source
1976	Sperber Murray S OD	Pacific Telephone
	Leonard L V OD	Pacific Telephone
1958	Tamms Barber Shop	Pacific Telephone

339 S FAIRFAX AVE

Year	Uses	Source
1986	BEAUTIFUL NAIL	Pacific Bell
1981	OPTI CAL VISION CENTER	Pacific Telephone
1976	Opti Cal	Pacific Telephone
1971	M & M Rare Coin Co	Pacific Telephone
	Bronson Jan coin dlr	Pacific Telephone

348 S FAIRFAX AVE

Year	Uses	Source
2006	CLEANERS	Haines Company, Inc.
	FAIR DRY	Haines Company, Inc.

FINDINGS

349 S FAIRFAX AVE

Year	Uses	Source
1990	KINGS CLEANERS	Pacific Bell
1986	KINGS CLEANERS	Pacific Bell
1981	KINGS CLEANERS	Pacific Telephone
1976	Kings Cleaners	Pacific Telephone
1971	Kings Cleaners	Pacific Telephone

350 S FAIRFAX AVE

Year	Uses	Source
1971	ALEXANDERS GROCERY	Pacific Telephone
1960	MATERNITY MOTHERHOOD SHOPS	Pacific Telephone
1958	MATERNITY MOTHERHOOD SHOPS	Pacific Telephone
	Achilles Ortho Pediatric Shoe Repair	Pacific Telephone
	Aldrichs of California Gift Shop	Pacific Telephone
	Arpegio Fashions	Pacific Telephone
	Betty Wales Fashions womens apprl	Pacific Telephone
	Cards & Cups	Pacific Telephone
	Camera Exch	Pacific Telephone
	BRETON HOUSE	Pacific Telephone
	Charles Lewis Casuals	Pacific Telephone
	Charmaine Imports	Pacific Telephone
	Continental Shoe Salon	Pacific Telephone
	Coral Sea Restaurant	Pacific Telephone
	Fishers restrnt	Pacific Telephone
	Forbes Don Record Shop	Pacific Telephone
	Guy Mr mens haberdashery	Pacific Telephone
	Hersheways A Thousand & One Nights	Pacific Telephone
	Hickory Pit Bar B Q	Pacific Telephone
	Hollywood Shoppe The	Pacific Telephone
	India Imports	Pacific Telephone
	Jeb Shirts n Skirts	Pacific Telephone
	KFMU Radio Stn	Pacific Telephone
	Lannis Lingerie Shop	Pacific Telephone
	Lilyans Corsets & Lingerie Shoppe	Pacific Telephone
	Maternity Motherhood Shops	Pacific Telephone
	Mc Coys Antiques & Lamps	Pacific Telephone
	Mei Wings Oriental Gift Shop	Pacific Telephone
	Mexican Kitchen The	Pacific Telephone
	Mr Guy mens haberdashery	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	MOTHERHOOD MATERNITY SHOPS	Pacific Telephone
	Neill Florence Candies	Pacific Telephone
	Ninas Ladies Fashions	Pacific Telephone
	Pan American Broadcasting Co	Pacific Telephone
	Playmates	Pacific Telephone
	Port of Asia	Pacific Telephone
	Radio Stn KFMU	Pacific Telephone
	Really Yours spotswr & acces	Pacific Telephone
	Reiter Ruth & Helen ladies apprl	Pacific Telephone
	Relax It Health & Massage Equipt	Pacific Telephone
	Richards Ice Cream Shop	Pacific Telephone
	Stewarts Jewelry & Handbags	Pacific Telephone
	TOWN & COUNTRY VILLAGE	Pacific Telephone
	Village Beauty Bar	Pacific Telephone
	Village Pie Pan	Pacific Telephone
	Village Shoe Fashions	Pacific Telephone
	Village Swedish Shop The	Pacific Telephone
	Wales Betty womens apprl	Pacific Telephone
	Yolandas Restaurant	Pacific Telephone
1957	MATERNITY MOTHERHOOD SHOPS	Pacific Telephone
1956	MATERNITY MOTHERHOOD SHOPS	Pacific Telephone
1954	MATERNITY MOTHERHOOD SHOPS	R. L. Polk & Co.

351 S FAIRFAX AVE

Year	Uses	Source
2006	GRACE SKIN & NAIL	Haines Company, Inc.
1990	CARABEL DANCEWEAR UNLIMITED	Pacific Bell
	KARABEL DANCEWEAR UNLIMITED	Pacific Bell
1986	CARABEL DANCEWEAR UNLIMITED	Pacific Bell
	KARABEL DANCEWEAR UNLIMITED	Pacific Bell
1981	CARABEL DANCEWEAR UNLIMITED	Pacific Telephone
	KARABEL DANCEWEAR UNLIMITED	Pacific Telephone
1976	Carabel Dancewear Unlimited	Pacific Telephone
	Karabel Dancewear Unlimited	Pacific Telephone
1971	R C R Coin Laundry	Pacific Telephone
1958	Welans Custom Cleaners & Tailors	Pacific Telephone
1942	Kornblum Abr H Mae clo clnr	Los Angeles Directory Co.
1937	Bunch Guy M Bessie real est	Los Angeles Directory Co.
	Kilpatrick Robt T real est	Los Angeles Directory Co.

FINDINGS

Year	Uses	Source
1937	WHITE M Alice notary	Los Angeles Directory Co.
	MAYER Justin G reel est	Los Angeles Directory Co.
1933	BUNCH Guy M Bessie R real est	Los Angeles Directory Co.

353 S FAIRFAX AVE

Year	Uses	Source
2006	SIGNTIST INC	Haines Company, Inc.
1995	Carabel Dance Wear	Pacific Bell
	Karabel Dance Wear	Pacific Bell
1991	Carabet L	Pacific Bell
	Carabet David	Pacific Bell
	Carabet Armie	Pacific Bell
	Carabeo R S Fer	Pacific Bell
	Carabelli Paula	Pacific Bell
	Carabelli Paul M Sepulveda	Pacific Bell
	Carabelli PA	Pacific Bell
	Carabel Dance Wear	Pacific Bell
1990	KARABEL DANCE WEAR	Pacific Bell
	CARABEL DANCE WEAR	Pacific Bell
1986	CARABEL DANCE WEAR	Pacific Bell
	KARABEL DANCE WEAR	Pacific Bell
1985	Carabel Dance Wear	Pacific Bell
	Karabel Dance Wear	Pacific Bell
1981	CARABEL DANCE WEAR	Pacific Telephone
	KARABEL DANCE WEAR	Pacific Telephone
1976	Carabel Dance Wear	Pacific Telephone
	Karabel Dance Wear	Pacific Telephone
1971	Imperial Wig Imports	Pacific Telephone
1958	Johnnys Shoe Repair	Pacific Telephone

355 S FAIRFAX AVE

Year	Uses	Source
2006	LARTISAH	Haines Company, Inc.
1990	L ARTISAN	Pacific Bell
1986	L ARTISAN	Pacific Bell
1981	L ARTISAN	Pacific Telephone
1976	LARTISAN	Pacific Telephone
1971	LArtisan	Pacific Telephone

FINDINGS

357 S FAIRFAX AVE

Year	Uses	Source
2006	HOLYO	Haines Company, Inc.
	FLOWERS	Haines Company, Inc.
	WHOLESALE CO	Haines Company, Inc.
1990	FAIRFAX COINS	Pacific Bell
	MANDEL ROBT B COINS & STAMPS	Pacific Bell
	SADOVNICK BRETT TRADES	Pacific Bell
	TRADES	Pacific Bell
1986	MANDEL ROBT B COINS & STAMPS	Pacific Bell
	MANDEL ROBT B STAMPS & COINS	Pacific Bell
1981	MANDEL ROBT B COINS & STAMPS	Pacific Telephone
	MANDEL ROBT B STAMPS & COINS	Pacific Telephone
1976	Arnolds Stamps & Coins	Pacific Telephone
	Harolds Coins & Stamps	Pacific Telephone
	Harolds Stamps & Coins	Pacific Telephone
1971	Arnolds Stamps	Pacific Telephone

359 S FAIRFAX AVE

Year	Uses	Source
1990	WEST COAST IMPORT EXPORT	Pacific Bell
1986	WEST COAST IMPORT EXPORT	Pacific Bell
1981	STOP N SAVE	Pacific Telephone
1976	Hawaii Independent Travel	Pacific Telephone
	INDEPENDENT TRAVEL SERVICE INC	Pacific Telephone
	Israel Independent Travel	Pacific Telephone
1971	Hawaii Independent Travel	Pacific Telephone
	INDEPENDENT TRAVEL SERVICE INC	Pacific Telephone
	Israel Independent Travel	Pacific Telephone
1965	M J DELSON CO MTGES	Pacific Telephone
1958	Delson M J Co rl est loans	Pacific Telephone
	ACME MORTGAGE CO	Pacific Telephone
	Acme Mortgage Co	Pacific Telephone
	DELSON M J CO mtges	Pacific Telephone
	Pioneer Mortgage Co See Pioneer Trust Deed Co	Pacific Telephone

361 S FAIRFAX AVE

Year	Uses	Source
2006	DECORDOVA	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	BODEGA	Haines Company, Inc.
1990	MOMS GOURMET KITCHEN	Pacific Bell
1981	JOSEF S BEAUTY SALON	Pacific Telephone
1976	Maynards Hair Fashions	Pacific Telephone
	Pik A Book Co	Pacific Telephone
1971	LEE GILL WORK SHOP	Pacific Telephone
	Maynards Hair Fashions	Pacific Telephone
1958	Fabiano Beauty Salon	Pacific Telephone
	Fabiano Beauty Salon	Pacific Telephone
	Gill Lee Workshop	Pacific Telephone
	Lee Gill Workshop	Pacific Telephone

363 S FAIRFAX AVE

Year	Uses	Source
2006	WESTSIDE	Haines Company, Inc.
	OPTICIANS	Haines Company, Inc.
	FRANKSOILER	Haines Company, Inc.
	OPCHARBOIS E	Haines Company, Inc.
1990	PEKING TAM	Pacific Bell
1986	KOSHER EXPRESS	Pacific Bell
1981	KOZO ICE CREAM FAIRFAX BRANCH	Pacific Telephone
1958	Bronz Cake Shop	Pacific Telephone

365 S FAIRFAX AVE

Year	Uses	Source
2006	PIZZAWORLDINC	Haines Company, Inc.
1990	NOSTRA KOSHER	Pacific Bell
	KOSHER NOSTRA	Pacific Bell
1986	NOSTRA KOSHER	Pacific Bell
	KOSHER NOSTRA	Pacific Bell
1981	NOSTRA KOSHER	Pacific Telephone
	KOSHER NOSTRA	Pacific Telephone
1976	Decorators Quilting Co	Pacific Telephone
1958	ASTA-AMERICAN SLEEP TEACHING ASSN	Pacific Telephone
	Natl Labor Bureau	Pacific Telephone
	Melnikow H P Natl Labor Bureau	Pacific Telephone
	Asta American Sleep Teaching Assn	Pacific Telephone
	American Sleep Teaching Assn	Pacific Telephone

Year	Uses	Source
1957	ASTA-AMERICAN SLEEP TEACHING ASSN	Pacific Telephone

370 S FAIRFAX AVE

Year	Uses	Source
1986	LEVETT E R	Pacific Bell
	KINCAID HARRISON R	Pacific Bell
	SELDITZ HARRY A	Pacific Bell
	FINK HERMAN N & ASSOCIATES	Pacific Bell
	GEST MORRIS	Pacific Bell
1981	BEAUMAN STEVEN K	Pacific Telephone
	FINK HERMAN N & ASSOCIATES	Pacific Telephone
	GEST MORRIS	Pacific Telephone
	KINCAID HARRISON R	Pacific Telephone
	LEVETT E R	Pacific Telephone
	SELDITZ HARRY A	Pacific Telephone
1976	LEVETT E R	Pacific Telephone
	FINK HERMAN N & ASSOCIATES	Pacific Telephone
	Foster Glen B	Pacific Telephone
	KINCAID HARRISON R	Pacific Telephone
	SELDITZ HARRY A	Pacific Telephone
1971	FINK HERMAN N & ASSOCIATES	Pacific Telephone
	FOSTER GLEN B	Pacific Telephone
	KINCAID HARRISON R	Pacific Telephone
	LEVETT E R	Pacific Telephone
	SELDITZ HARRY A	Pacific Telephone
	Stoddard Raymond H	Pacific Telephone

361 1/2 S FAIRFAX AVE

Year	Uses	Source
1990	OPTIMART	Pacific Bell
	MARER LESLIE	Pacific Bell

W 3RD

6296 W 3RD

Year	Uses	Source
1990	VALU RITE DRUGS	Pacific Bell
	SAV-RX DRUGS	Pacific Bell
	DISCO DRUG PHARMACY	Pacific Bell

FINDINGS

Year	Uses	Source
1986	VALU-RITE DRUGS	Pacific Bell
	SAV-RX DRUGS	Pacific Bell
	DISCO DRUG PHARMACY	Pacific Bell
1981	VALU-RITE DRUGS	Pacific Telephone
	SAV-RX DRUGS	Pacific Telephone
	DISCO DRUG PHARMACY	Pacific Telephone
1971	Tower Drug Co	Pacific Telephone
	Rexall Drug Park La Brea	Pacific Telephone
	Park La Brea The Owl Drug Co	Pacific Telephone
	OWL DRUG COMPANY ARKLa Brea	Pacific Telephone
1962	Tower Drug Co	Pacific Telephone
	Park La Brea The Owl Drug Co	Pacific Telephone
	Park La Brea Owl Rexall Drug Store	Pacific Telephone
	OWL DRUG COMPANY PARKLa Brea	Pacific Telephone

6298 W 3RD

Year	Uses	Source
1990	ROSS STORES	Pacific Bell
	ROSS DRESS FOR LESS JEWELRY	Pacific Bell
1986	ROSS STORES	Pacific Bell
1962	Market Basket Park La Brea	Pacific Telephone
	VAN de KAMPS HOLLAND DUTCH BAKERS Los Angeles Bakery Stores	Pacific Telephone
	Market Basket	Pacific Telephone

6301 W 3RD

Year	Uses	Source
1990	JUNIOR LEAGUE OF L A	Pacific Bell
	BROWN JOHN H	Pacific Bell
	GILMORE A F CO	Pacific Bell
	JLLA CITY WINDOW	Pacific Bell
	JUNIOR LEAGUE OF L A	Pacific Bell
1986	GILMORE A F CO	Pacific Bell
	BROWN JOHN H	Pacific Bell
1981	GILMORE A F CO	Pacific Telephone
	GILMORE A F CO	Pacific Telephone
1962	Gilmore E B	Pacific Telephone

FINDINGS

6302 W 3RD

Year	Uses	Source
1991	Hollywood Locksmith	Pacific Bell
	Jims Lock & Key Service	Pacific Bell
	Jims Maintenance CULVER CITY 3976681	Pacific Bell
	Jims Lock & Key Service	Pacific Bell
	HOLLYWOOD LOCKSMITH	Pacific Bell
1990	HOLLYWOOD LOCKSMITH	Pacific Bell
	JIM S LOCK & KEY SERVICE	Pacific Bell
1986	HOLLYWOOD LOCKSMITH	Pacific Bell
	JIM S LOCK & KEY SERVICE	Pacific Bell

6316 W 3RD

Year	Uses	Source
1990	SINGER SEWING COMPANY APPROVED DEALERS	Pacific Bell
	WEST LOS ANGELES SEWING CENTER	Pacific Bell

6318 W 3RD

Year	Uses	Source
1990	FOX PHOTO 1 HOUR LABS	Pacific Bell
	FOX 50 MINUTE COLOR PRINTS	Pacific Bell
1986	FOX 50 MINUTE COLOR PRINTS	Pacific Bell
	FOX PHOTO 1 HOUR LABS	Pacific Bell
1985	Town & Country Shpng Ctr	Pacific Bell
1981	BETTY WALES FASHIONS	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	Betty Wales Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Betty Wales Fashions	Pacific Telephone

6322 W 3RD

Year	Uses	Source
1990	IDA S FASHIONS	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1986	IDAS FASHIONS	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1981	NINA S FASHIONS	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone

Year	Uses	Source
1971	Ninas Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Ninas Fashions	Pacific Telephone

6324 W 3RD

Year	Uses	Source
1990	OPTICAL SHOPPE THE	Pacific Bell
1986	OPTICAL SHOPPE THE	Pacific Bell
1981	OPTICAL SHOPPE	Pacific Telephone
1971	Lannis	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Lannis	Pacific Telephone

6326 W 3RD

Year	Uses	Source
1990	TOWN & COUNTRY CENTER STORES	Pacific Bell
	A LA CARD	Pacific Bell
	A L A CARD	Pacific Bell
	ALA CARD	Pacific Bell
1986	A LA CARD	Pacific Bell
	ALA CARD	Pacific Bell
	ALA CARD	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1981	ALA CARD	Pacific Telephone
	ALA CARD	Pacific Telephone
	A LA CARD	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	A La Card	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	A La Card	Pacific Telephone

6328 W 3RD

Year	Uses	Source
1990	CLAUDETTE JEWELRY	Pacific Bell
1986	CLAUDETTE JEWELRY	Pacific Bell
1981	CLAUDETTE JEWELRY	Pacific Telephone
1971	M Ladye Half Size Fashions	Pacific Telephone
	MLadye Half Size Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

FINDINGS

6331 W 3RD

Year	Uses	Source
1990	FARMERS MKT ARTS & ANTIQUE GALLERY	Pacific Bell

6332 W 3RD

Year	Uses	Source
1990	ANDRE S OF TOWN & COUNTRY	Pacific Bell
	CLEOPATRA S FISHERS HAMBURGERS	Pacific Bell
	CLIFTOWN JR	Pacific Bell
	MAJESTIC JEWELRY	Pacific Bell
	PEKING PALACE CHINESE RESTAURANT	Pacific Bell
	TOWN & COUNTRY CENTER PATIO SHOPS	Pacific Bell
1986	SUNNYS COFFEE SHOP	Pacific Bell
	MOONGATE ORIENTAL RESTAURANT	Pacific Bell
	MR FOOD	Pacific Bell
	TOWN & COUNTRY CENTER PATIO SHOPS ANDRE S OF TOWN & COUNTRY	Pacific Bell
	ANDRE S OF TOWN & COUNTRY	Pacific Bell
	CLEOPATRA S FISHERS HAMBURGERS	Pacific Bell
	LAURIES FLOWERS	Pacific Bell
	MAJESTIC JEWELRY	Pacific Bell
	MIKE S GREEK CUISINE	Pacific Bell
1981	ADELE S EMBROIDERED IMPORTS & HANDICRAFTS	Pacific Telephone
	ANDRE S OF TOWN & COUNTRY	Pacific Telephone
	ASAHI JAPANESE RESTAURANT	Pacific Telephone
	AVO S RESTAURANT	Pacific Telephone
	CLEOPATRA RESTAURAT	Pacific Telephone
	OF THE WORLD RESTAURANT & DELICATESSEN	Pacific Telephone
	KABAB HOUSE RESTAURANT	Pacific Telephone
	MAJESTIC JEWELRY	Pacific Telephone
	PEPE S MEXICAN CAFETERIA	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1971	Andres Of Town & Country	Pacific Telephone
	California Donuts And Pie Shop	Pacific Telephone
	Fishers Hamburgers	Pacific Telephone

Year	Uses	Source
1971	Jerrys Dog Pound food stand	Pacific Telephone
	Majestic Jewelry	Pacific Telephone
	Patio Gallery The	Pacific Telephone
	Scandinavian Inn	Pacific Telephone
	Scandinavian Inn	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Jerrys Dog Pound	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Andres Of Town & Country	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	California Donuts And Pie Shop	Pacific Telephone
	Fishers Hamburgers	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	Yonkles Town & Country Bar B Q	Pacific Telephone
	Yonkles Town & Country Bar B Q	Pacific Telephone
1962	Upright Drapery Studio	Pacific Telephone

6333 W 3RD

Year	Uses	Source
1991	B DALTON BOOKSELLER	Pacific Bell
	Los Angeles Farmers Market	Pacific Bell
1990	ALEXANDER S GROCERY	Pacific Bell
	AMERICA U S A	Pacific Bell
	B DALTON BOOKSELLER BEVERLY HILLS BH	Pacific Bell
	BETTY S CARDTOWNE	Pacific Bell
	CASTILLO S SPANISH KITCHEN	Pacific Bell
	CHARLIE S LOPEZ PRODUCE INC	Pacific Bell
	CHINESE KITCHEN FARMERS MKT	Pacific Bell
	CRYSTAL EMPORIUM THE	Pacific Bell
	DIANES FLOWERS	Pacific Bell
	DREW S CANDLE SHOP CANDLES BY DREW	Pacific Bell
	FARMER FRESH PRODUCE	Pacific Bell
	FARMERS FRESH FLOWER MARKET	Pacific Bell

FINDINGS

Year	Uses	Source
1990	FARMERS MARKET NEWSTAND	Pacific Bell
	FARMERS MARKET-NEWSTAND	Pacific Bell
	FARMERS MARKET PEWTER-TIFFANY CREATIONS	Pacific Bell
	GILL OLD FASHIONED ICE CREAM	Pacific Bell
	GILL S OLD FASHIONED ICE CREAM	Pacific Bell
	GUMBO POT THE	Pacific Bell
	HILARY S FROZEN YOGURT	Pacific Bell
	HUNTINGTON MEATS	Pacific Bell
	JUNGLE BOB S	Pacific Bell
	KIDDYLAND	Pacific Bell
	KOKOMO CAFE	Pacific Bell
	KORNGUT MARVIN S	Pacific Bell
	LACE & GLITZ	Pacific Bell
	LANGSTON S SAUSAGE	Pacific Bell
	LITTLE JOHN S ENGLISH TOFFEE HOUSE	Pacific Bell
	MAGEE S MKTS	Pacific Bell
	MARIE S FRENCH & ITALIAN CUISINE	Pacific Bell
	MRS FIELDS COOKIES	Pacific Bell
	PERSON TO PERSON-PERSONALIZED GIFTS	Pacific Bell
	PEWTER PARK-TIFFANY CREATIONS	Pacific Bell
	PHIL S DELI	Pacific Bell
	PHIL S ROUNDUP	Pacific Bell
	RALPH S KEY SHOP	Pacific Bell
	SCRIPT CRAFT PERSONALIZED JWLRY	Pacific Bell
	SHELTAMS	Pacific Bell
	TESQUELLA S FISH & OYSTER BAR	Pacific Bell
	THEES CONTINENTAL PASTRIES	Pacific Bell
	326 BEER & WINE	Pacific Bell
	TIFFANY CREATIONS PEWTER	Pacific Bell
	TOKYO HOUSE	Pacific Bell
	TONY S PIZZA SPAGHETTI	Pacific Bell
	VIASPORT	Pacific Bell
	WALDER S WINES & SPIRITS	Pacific Bell
	WALDER S WINES & SPIRITS	Pacific Bell
1986	ADVERTISING COMMITEE	Pacific Bell
	ALEXANDER S GROERY	Pacific Bell

FINDINGS

Year	Uses	Source
1986	BARCHI FOOD	Pacific Bell
	BETTY S CARDTOWNE	Pacific Bell
	BUNCHES OF FLOWERS	Pacific Bell
	CASTILLO S SPANISH KITCHMN	Pacific Bell
	CHINESE KITCHEN FARMER S MKT	Pacific Bell
	CIRCUS VARGAS	Pacific Bell
	CRYSTAL EMPORIUM THE	Pacific Bell
	DE LA CHESNAYE NORMAN	Pacific Bell
	FARMER FRESH PRODUCE	Pacific Bell
	FARMERS MKT	Pacific Bell
	FARMERS MKT FRUIT & PRODUCE	Pacific Bell
	FARMERS MARKET NEWSSTAND	Pacific Bell
	FARMERS MARKET NEWSTAND SEE SHELTAMS	Pacific Bell
	FARMERS MARKET PEWTER-TIFFANY CREATIONS	Pacific Bell
	FARMERS MKT STATIONERY N CARDS	Pacific Bell
	FARMERS MKT WINE & SPIRITS	Pacific Bell
	GILL OLD FASHINED ICE CREAM	Pacific Bell
	GILL S OLD FASHIONED ICE CREAM	Pacific Bell
	GRAY LINE SIGHTSEEING TOURS FARMERS MARKET	Pacific Bell
	GRAY LINE TOURS FARMERS MARKET	Pacific Bell
	GRAY LINE TOURS CHARTER SERVICE FARMERS MARKET	Pacific Bell
	GUMBO POT THE	Pacific Bell
	HANSON GALLERIES	Pacific Bell
	JOE S NURSERY	Pacific Bell
	JOE S NURSERY	Pacific Bell
	JUNIOR LEAGUE OF L A	Pacific Bell
	KORNGUT MARVIN S	Pacific Bell
	LANGSTON S SAUSAGE	Pacific Bell
	MRS FIELDS COOKIES	Pacific Bell
	NON STUFFY STATIONERY	Pacific Bell
	PEWTER PARK TIFFANY CREATIONS	Pacific Bell
	PHIL S DELI	Pacific Bell
	PHIL S ROUNDUP	Pacific Bell
	QUICHE LORI BKRY	Pacific Bell
	RALPHS KEY SHOP	Pacific Bell

FINDINGS

Year	*Uses*	*Source*
1986	RICKER-BARTLETT PEWTER-TIFFANY CREATION	Pacific Bell
	SHELTAMS	Pacific Bell
	STEVE S OASIS	Pacific Bell
	SUNRISE PIES & DESSERTS	Pacific Bell
	TESQUELLA S FISH & OYSTER BAR	Pacific Bell
	THEES CONTINENTAL PASTRIES	Pacific Bell
	TIFFANY CREATIONS PEWTER	Pacific Bell
	TOKYO HOUSE	Pacific Bell
	TONY S PIZZA-SPAGHETTI	Pacific Bell
	TUSQUELLAS MEAT MARKET	Pacific Bell
	VIASPORT	Pacific Bell
	WALDER S WINES & SPIRITS	Pacific Bell
	WINE GARDEN CAFE	Pacific Bell
1981	ACAPULCO PRODUCE	Pacific Telephone
	ALEXANDER S GROCERY	Pacific Telephone
	ALTABET S FLOWER SHOP	Pacific Telephone
	LOS ANGELES FARMERS MARTKET	Pacific Telephone
	BETTY S CARDLOWNE-FARMERS MARKET	Pacific Telephone
	BILL DANIELS QUALITY POULTRY	Pacific Telephone
	CASTILLO S SPANISH KITCHEN	Pacific Telephone
	CHINESE KITCHEN FARMER S MKT	Pacific Telephone
	DIANAS GLASS ART	Pacific Telephone
	FARMER S MARKET BOOK & NEWS	Pacific Telephone
	FARMER S MKT FRUIT & PRODUCE	Pacific Telephone
	FARMERS MARKET MAGIC & FUN SHOP	Pacific Telephone
	FARMER S MKT NEWS STAND	Pacific Telephone
	ICE CREAM	Pacific Telephone
	GILLS OLD FASHIONED ICE CREAM	Pacific Telephone
	GILL OLD FASHIONED ICE CREAM	Pacific Telephone
	GILL S OLD FASHIONED ICE CREAM	Pacific Telephone
	HANSON GALLERIES	Pacific Telephone
	JOE S NURSERY	Pacific Telephone
	JUNIOR LEAGUE OF L A	Pacific Telephone
	LA FRIEDA MEATS	Pacific Telephone
	MICHAEL S GOURMET PASTRY	Pacific Telephone
	PHIL S ROUNDUP	Pacific Telephone
	QUICHE LORI BKRY	Pacific Telephone

FINDINGS

Year	Uses	Source
1981	RALPH S KEY SHOP	Pacific Telephone
	ROGERS WHOLESALE POULTRY	Pacific Telephone
	ROY S SHOE SHINE STAND	Pacific Telephone
	SHELTAM BOOKS	Pacific Telephone
	SMITH S OLYMPIC SPORTS	Pacific Telephone
	STEVE S OASIS	Pacific Telephone
	THEES CONTINENTAL PASTRIES	Pacific Telephone
	TONY S PIZZA-SPAGHETTI	Pacific Telephone
	ULTIMATE NUT CO INC THE	Pacific Telephone
	WORLDWIDE FASHIONS	Pacific Telephone
	YOUNG HOONG CORP	Pacific Telephone
1971	Accessory Shop The	Pacific Telephone
	Altabets Flower Shop	Pacific Telephone
	Blind Information Center	Pacific Telephone
	Callies Jack Restaurant	Pacific Telephone
	CASTILLOS SPANISH KITCHEN	Pacific Telephone
	Country Kitchen	Pacific Telephone
	Farmers Market	Pacific Telephone
	Dorothe Maternity Fashions	Pacific Telephone
	Farmers Mkt	Pacific Telephone
	Du Pars Restaurants & Bakeries Encino	Pacific Telephone
	Egg Basket	Pacific Telephone
	FARMERS MKT FRUIT & PRODUCE	Pacific Telephone
	Information Center For The Blind	Pacific Telephone
	Jack Callies Restaurant	Pacific Telephone
	Junior League Of L A	Pacific Telephone
	Mens Miscellaneous	Pacific Telephone
	Meshulams Inc	Pacific Telephone
	Our Disposable World	Pacific Telephone
	PITTS THOS D NURSERY	Pacific Telephone
	Ralphs Key Shop	Pacific Telephone
1962	BLIND INFORMATION CENTER FOR THE JUNIOR LEAGUE OF L A	Pacific Telephone
	Castllos Spanish Kitchen	Pacific Telephone
	FARMERS MKT FRUIT & PRODUCE	Pacific Telephone
	Fish Retail Ocean Foods	Pacific Telephone
	Horner John M pub acct	Pacific Telephone
	Information Center fot the Blind Junior League of L A	Pacific Telephone

Year	Uses	Source
1962	Junior League of L A Information Center for the Blind	Pacific Telephone
	Ocean Foods Fish Stall	Pacific Telephone
	Pelwhite Co fish	Pacific Telephone
	STONES PRODUCE	Pacific Telephone

6334 W 3RD

Year	Uses	Source
1991	Allen Will	Pacific Bell
	At I Wertz Candies	Pacific Bell
1990	TOWN & COUNTRY CENTER STORES	Pacific Bell
	WERTZ ALLEN CANDIES	Pacific Bell
	ALLEN WERTZ CANDIES MAIN OFC & STORE	Pacific Bell
1986	ALLEN WERTZ CANDIES	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
	WERTZ ALLEN CANDIES MAIN OFC & STORE	Pacific Bell
1981	ALLEN WERTZ CANDIES	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	WERTZ ALLEN CANDIES	Pacific Telephone
1971	Neill Florence Candles	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Neill Florence Candies	Pacific Telephone

6336 W 3RD

Year	Uses	Source
1990	ESKIMO S GOURMET FROZEN YOGURT INC	Pacific Bell
1986	TOWN & COUNTRY CENTER STORES	Pacific Bell
	CHARMAINE	Pacific Bell
1981	TOWN & COUNTRY CENTER	Pacific Telephone
	CHARMAINE	Pacific Telephone
1971	Charmaine	Pacific Telephone
	Charmaine	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6338 W 3RD

Year	Uses	Source
1981	TOWN & COUNTRY CENTER	Pacific Telephone
	MR LOU S BEAUTY SUPPLIES & WIGS	Pacific Telephone

Year	Uses	Source
1971	Lous Beauty Supplies	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Lous Beauty Supplies	Pacific Telephone

6342 W 3RD

Year	Uses	Source
1990	TOWN & COUNTRY CENTER STORES	Pacific Bell
	EVA S BAKERY	Pacific Bell
1986	EVAS BAKERY	Pacific Bell
	TOWN & COUNTRY CENTER STORES	Pacific Bell
1981	TOWN & COUNTRY CENTER	Pacific Telephone
	EVA S BAKERY	Pacific Telephone
1971	Evas Bakery	Pacific Telephone

6332 1/2 W 3RD

Year	Uses	Source
1990	TOWN & COUNTRY NEWSTAND	Pacific Bell

W 3RD 9318894

6333 W 3RD 9318894

Year	Uses	Source
1990	RICKER BARTLETT PEWTER TIFFANY CREATION	Pacific Bell

W 3RD ST

6296 W 3RD ST

Year	Uses	Source
1976	Tower Drug Co	Pacific Telephone
	Rexall Drug Parklabrea	Pacific Telephone
	Park La Brea The Owl Drug Co	Pacific Telephone
	OWL DRUG COMPANY PARKLABREA	Pacific Telephone
	Disco Drug & Discount Center	Pacific Telephone
1967	Tower Drug Co	Pacific Telephone
	Rexall Drug Park La Brea	Pacific Telephone
	Park La Brea The Owl Drug Co	Pacific Telephone
	OWL DRUG COMPANY PARKLa Brea	Pacific Telephone
1958	Parklabrea	Pacific Telephone

FINDINGS

W 3rd St

6298 W 3rd St

Year	Uses	Source
2014	ROSS STORES INC	EDR Digital Archive
	ROSS STORES INC	EDR Digital Archive
2010	ROSS STORES INC	EDR Digital Archive
	ROSS STORES INC	EDR Digital Archive

W 3RD ST

6298 W 3RD ST

Year	Uses	Source
2006	ROSS STORES	Haines Company, Inc.
1976	Market Basket Stores	Pacific Telephone
1967	Market Basket Stores	Pacific Telephone
1958	Market Basket Parklabrea	Pacific Telephone
	Van de Kamps Holland Dutch Bakers Los Angeles Bakery Stores	Pacific Telephone

6301 W 3RD ST

Year	Uses	Source
2006	BUILDING	Haines Company, Inc.
	ABERCROMBIE	Haines Company, Inc.
	FITCH COMPANY	Haines Company, Inc.
	ANTHROPOLOGIE	Haines Company, Inc.
	BANANA REPUBLIC	Haines Company, Inc.
	GROVE	Haines Company, Inc.
	BARNES NOBLE	Haines Company, Inc.
	BOOKSELLERS	Haines Company, Inc.
	CELL FACTORY INC	Haines Company, Inc.
	CHICOS	Haines Company, Inc.
	COACH STORE AT	Haines Company, Inc.
	FARMERS MARKET	Haines Company, Inc.
	GAPTHE	Haines Company, Inc.
	GILMORE A F CO	Haines Company, Inc.
	GILMORE A F CO	Haines Company, Inc.
	ICE ACCESSORIES	Haines Company, Inc.
	LAPIAZZA	Haines Company, Inc.
	LUCKY BRAND	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	JEANS	Haines Company, Inc.
	NIKE GODDESS AT	Haines Company, Inc.
	THE GROVE	Haines Company, Inc.
	PACSUNWEAR	Haines Company, Inc.
	THE WHISPER LNG	Haines Company, Inc.
	EXEC OFC	Haines Company, Inc.
	T MOBILE	Haines Company, Inc.
1976	Gilmore Earl Mrs	Pacific Telephone
	Weygandt Harold W Sr	Pacific Telephone
1967	Gilmore Earl Mrs	Pacific Telephone
1958	Brown Henry	Pacific Telephone
	Gilmore E B	Pacific Telephone

W 3rd St

6302 W 3rd St

Year	Uses	Source
2014	A-1 KEYS	EDR Digital Archive
	A-1 KEYS	EDR Digital Archive
2010	A-1 KEYS	EDR Digital Archive
	A-1 KEYS	EDR Digital Archive

W 3RD ST

6302 W 3RD ST

Year	Uses	Source
1985	HOLLYWOOD LOCKSMITH	Pacific Bell

6306 W 3RD ST

Year	Uses	Source
1958	Town & Country Auto Wash	Pacific Telephone

6314 W 3RD ST

Year	Uses	Source
1976	Store Operating Co Office	Pacific Telephone
	Mc Crory Stores	Pacific Telephone
	Mc Coroy Stores	Pacific Telephone

FINDINGS

6316 W 3RD ST

Year	Uses	Source
1976	TOWN & COUNTRY CENTER	Pacific Telephone
	Storez Town & Country Sewing Center	Pacific Telephone

6318 W 3RD ST

Year	Uses	Source
1976	Storez Betty Wales Fashions	Pacific Telephone
	Betty Wales Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Betty Wales Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Betty Wales Fashions	Pacific Telephone

W 3rd St

6322 W 3rd St

Year	Uses	Source
2014	BUZA	EDR Digital Archive
	BUZA	EDR Digital Archive
2010	SHOE STUDIO	EDR Digital Archive
	A ROBERTA CORP	EDR Digital Archive
	A ROBERTA CORP	EDR Digital Archive
	SHOE STUDIO	EDR Digital Archive

W 3RD ST

6322 W 3RD ST

Year	Uses	Source
1976	Ninas Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Storez Ninas Fashions	Pacific Telephone
1967	Ninas Fashions	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Ninas Fashions	Pacific Telephone

W 3rd St

6324 W 3rd St

Year	Uses	Source
2014	PAYLESS SHOESOURCE INC	EDR Digital Archive

Year	Uses	Source
2014	PAYLESS SHOESOURCE INC	EDR Digital Archive
2010	COLLECTIVE BRANDS INC	EDR Digital Archive
	COLLECTIVE BRANDS INC	EDR Digital Archive

W 3RD ST

6324 W 3RD ST

Year	Uses	Source
2006	PAYLESS SHOE	Haines Company, Inc.
	SOURCE	Haines Company, Inc.
1967	Lannis	Pacific Telephone
	Lannis	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone

6326 W 3RD ST

Year	Uses	Source
1976	Storez A La Card	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Ala Card	Pacific Telephone
	ALA Card	Pacific Telephone
	A Los Angeles CARD	Pacific Telephone
1967	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	A La Card	Pacific Telephone
	A La Card	Pacific Telephone

W 3rd St

6328 W 3rd St

Year	Uses	Source
2014	WIGS TODAY	EDR Digital Archive
	JUNE & F INC	EDR Digital Archive
	JUNE & F INC	EDR Digital Archive
	WIGS TODAY	EDR Digital Archive
2010	WIGS TODAY	EDR Digital Archive
	JUNE & F INC	EDR Digital Archive
	JUNE & F INC	EDR Digital Archive
	WIGS TODAY	EDR Digital Archive

FINDINGS

W 3RD ST

6328 W 3RD ST

Year	Uses	Source
2006	ROBERTA CORP INC	Haines Company, Inc.
1976	Pinkn Blue Childrens Boutique	Pacific Telephone
1967	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Upright Drapery Studio	Pacific Telephone
	Upright Drapery Studio	Pacific Telephone

W 3rd St

6332 W 3rd St

Year	Uses	Source
2014	MR ANDRE	EDR Digital Archive
	ANDRES ITALIAN RESTAURANT	EDR Digital Archive
	MR ANDRE	EDR Digital Archive
	ANDRES ITALIAN RESTAURANT	EDR Digital Archive
2010	MR ANDRE	EDR Digital Archive
	ANDRES ITALIAN RESTAURANT	EDR Digital Archive
	MR ANDRE	EDR Digital Archive
	ANDRES ITALIAN RESTAURANT	EDR Digital Archive

W 3RD ST

6332 W 3RD ST

Year	Uses	Source
2006	ANDRES	Haines Company, Inc.
	RESTAURANT	Haines Company, Inc.
	THAI PATIO	Haines Company, Inc.
1976	Andres Of Town & Country	Pacific Telephone
	Carmel Deli Restaurant	Pacific Telephone
	China Boy Restaurant	Pacific Telephone
	Fishers Hamburgers	Pacific Telephone
	Majestic Jewelry	Pacific Telephone
	Patio Gallery The	Pacific Telephone
	Thin World The restrnt	Pacific Telephone
	Patio Shops Andres Of Town & Country	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Patio Shops Calif Donnts	Pacific Telephone

FINDINGS

Year	Uses	Source
1976	TOWN & COUNTRY CENTER	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Patio Shops Fishers Hanburgers	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Patio Shops Patio Artesia Gallery	Pacific Telephone
1967	Anderson Soft Pretzels	Pacific Telephone
	Andres of Town & Country	Pacific Telephone
	Dog Pound restrnt	Pacific Telephone
	Dundee Donuts & Juice Bar	Pacific Telephone
	Fishers Hamburgers	Pacific Telephone
	Hardy Muriel Village Pie Pan	Pacific Telephone
	Majestic Jewelry	Pacific Telephone
	Pie Pan	Pacific Telephone
	Pretzels Inc	Pacific Telephone
	Scandinavia Inn	Pacific Telephone
	Scandinavian Inn	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Andres of Town & Country	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Dundee Donuts & Juice Bar	Pacific Telephone
	Fishers Hamburgers	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Scandinavian Inn	Pacific Telephone
	TOWN & COUNTRY CENTER Patio Shops	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	Village Pie Pan	Pacific Telephone
	Yonkles Town & Country Bar B Q	Pacific Telephone
	Town & Country Barber Shop	Pacific Telephone
	VILLAGE PIE PAN	Pacific Telephone
	YONKLES TOWN & COUNTRY BAR B Q	Pacific Telephone

FINDINGS

W 3rd St

6333 W 3rd St

Year	Uses	Source
2014	GUMBO POT	EDR Digital Archive
	GLOBAL EYE LASER CNTR MED GRP	EDR Digital Archive
	MARKET OPTMTRIX DCTORS OPTMTRY	EDR Digital Archive
	MAGIC NUT LLC	EDR Digital Archive
	VANCE-WLLIVER HUNTINGTON MEATS	EDR Digital Archive
	PAMPAS GRILL	EDR Digital Archive
	SUR LA TABLE INC	EDR Digital Archive
	SHINE GALLERY	EDR Digital Archive
	GILLS ICE CREAM CALIFORNIA	EDR Digital Archive
	GIFT & GADGET NOOKS INC	EDR Digital Archive
	FRENCH CREPE CO	EDR Digital Archive
	CHINA DEPOT	EDR Digital Archive
	SUSHI A GOGO	EDR Digital Archive
	FARMERS MARKET SHOE REPAIR	EDR Digital Archive
	T& Y BAKERY	EDR Digital Archive
	PURITAN POULTRY	EDR Digital Archive
	MONSIEUR MARCEL GOURMET MARKET	EDR Digital Archive
	STROUK GROUP INC	EDR Digital Archive
	AROYAN MOSES	EDR Digital Archive
	MOISHES	EDR Digital Archive
	MONSTER TALENT MANAGEMENT INC	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	ZIA VALENTINA LLC	EDR Digital Archive
	ZARA USA INC	EDR Digital Archive
	DIVAS WEAR	EDR Digital Archive
	FARM FRESH PRODUCE	EDR Digital Archive
	FARM BOY	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
	GAZAL ISAAC	EDR Digital Archive
	MARMALADE LLC	EDR Digital Archive
	SHORT ORDER	EDR Digital Archive
	RALPHS KEY SHOP	EDR Digital Archive
	COST PLUS INC	EDR Digital Archive
	PATSY DAMORE ITALIAN FOOD	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	DEANOS PIZZA	EDR Digital Archive
	LAPGENIUS INC	EDR Digital Archive
	MARKS JASON TALENT MANAGEMENT	EDR Digital Archive
	BARBERSHOP CLUB	EDR Digital Archive
	LITTLEJOHNS CANDY	EDR Digital Archive
	FARMERS MARKET	EDR Digital Archive
	WOODLAND EMBROIDERY	EDR Digital Archive
	PEKING KITCHEN	EDR Digital Archive
	LOTERIA GRILL HOLLYWOOD	EDR Digital Archive
	URBAN TRIBES	EDR Digital Archive
	KIPS TOYLAND	EDR Digital Archive
	AKT HOLDINGS LLC	EDR Digital Archive
	PAPPARDELLES PASTA	EDR Digital Archive
	ULYSSES VOYAGE GREEK REST	EDR Digital Archive
	HUTCHCO	EDR Digital Archive
	TOKYO HOUSE	EDR Digital Archive
	FRITZI DOG MANAGEMENT CO LLC	EDR Digital Archive
	CHANG MINNIE	EDR Digital Archive
	GRASS BURGER LLC	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	POWERCELL	EDR Digital Archive
	ESSENCE OF NATURE	EDR Digital Archive
	MARCONDAS MEATS INC	EDR Digital Archive
	CAMPER ATLANTIC CORP	EDR Digital Archive
	DU PARS REST & BAKERIES CORP	EDR Digital Archive
	TBILISI & YEREVAN BAKERY	EDR Digital Archive
	MAGIC NUT LLC	EDR Digital Archive
	VANCE-WLLIVER HUNTINGTON MEATS	EDR Digital Archive
	MAJESTIC JEWELRY	EDR Digital Archive
	LEON WEISS SYSTEM WATCH & JWLY	EDR Digital Archive
	WEISS JEWELRY	EDR Digital Archive
	GLOBAL EYE LASER CNTR MED GRP	EDR Digital Archive
	MARKET OPTMTRIX DCTORS OPTMTRY	EDR Digital Archive
	326 BEER & WINE	EDR Digital Archive
	326 LLC	EDR Digital Archive
	PAMPAS GRILL	EDR Digital Archive
	LITTLE SPAIN	EDR Digital Archive
	LIGHT MY FIRE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	MAGEES FARMER MARKET INC	EDR Digital Archive
	S B GIFT	EDR Digital Archive
	DRAGUNARA SPICE BAZAAR	EDR Digital Archive
	CKK GROUP LLC	EDR Digital Archive
	ICONIC ACCESSORIES	EDR Digital Archive
	PHILS ROUND UP AND GRILL INC	EDR Digital Archive
	EL HIJO DE GRANJERO	EDR Digital Archive
	TUSQUELLAS SEA FOODS	EDR Digital Archive
	BOBS COFFEE & DONUT SHOP INC	EDR Digital Archive
	SPORT FASHIONS	EDR Digital Archive
	STICKER PLANET	EDR Digital Archive
	COFFEE BEAN & TEA LEAF	EDR Digital Archive
	PLANET DAILIES (LA) LLC	EDR Digital Archive
	SALAD BAR	EDR Digital Archive
	MONSIEUR MARCEL GOURMET MARKET	EDR Digital Archive
	STROUK GROUP INC	EDR Digital Archive
	AROYAN MOSES	EDR Digital Archive
	MOISHES	EDR Digital Archive
	MAJESTIC JEWELRY	EDR Digital Archive
	WEISS JEWELRY	EDR Digital Archive
	LEON WEISS SYSTEM WATCH & JWLY	EDR Digital Archive
	326 BEER & WINE	EDR Digital Archive
	326 LLC	EDR Digital Archive
	LITTLE SPAIN	EDR Digital Archive
	LIGHT MY FIRE	EDR Digital Archive
	MAGEES FARMER MARKET INC	EDR Digital Archive
	DRAGUNARA SPICE BAZAAR	EDR Digital Archive
	CKK GROUP LLC	EDR Digital Archive
	ICONIC ACCESSORIES	EDR Digital Archive
	S B GIFT	EDR Digital Archive
	PHILS ROUND UP AND GRILL INC	EDR Digital Archive
	EL HIJO DE GRANJERO	EDR Digital Archive
	SPORT FASHIONS	EDR Digital Archive
	TUSQUELLAS SEA FOODS	EDR Digital Archive
	BOBS COFFEE & DONUT SHOP INC	EDR Digital Archive
	STICKER PLANET	EDR Digital Archive
	ZIA VALENTINA LLC	EDR Digital Archive
	ZARA USA INC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	COFFEE BEAN & TEA LEAF	EDR Digital Archive
	PLANET DAILIES (LA) LLC	EDR Digital Archive
	SALAD BAR	EDR Digital Archive
	DIVAS WEAR	EDR Digital Archive
	FARM BOY	EDR Digital Archive
	FARM FRESH PRODUCE	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
	GAZAL ISAAC	EDR Digital Archive
	MARMALADE LLC	EDR Digital Archive
	SHORT ORDER	EDR Digital Archive
	RALPHS KEY SHOP	EDR Digital Archive
	PATSY DAMORE ITALIAN FOOD	EDR Digital Archive
	LAPGENIUS INC	EDR Digital Archive
	DEANOS PIZZA	EDR Digital Archive
	COST PLUS INC	EDR Digital Archive
	MARKS JASON TALENT MANAGEMENT	EDR Digital Archive
	BARBERSHOP CLUB	EDR Digital Archive
	LITTLEJOHNS CANDY	EDR Digital Archive
	FARMERS MARKET	EDR Digital Archive
	WOODLAND EMBROIDERY	EDR Digital Archive
	PEKING KITCHEN	EDR Digital Archive
	SUR LA TABLE INC	EDR Digital Archive
	AKT HOLDINGS LLC	EDR Digital Archive
	PAPPARDELLES PASTA	EDR Digital Archive
	ULYSSES VOYAGE GREEK REST	EDR Digital Archive
	HUTCHCO	EDR Digital Archive
	FRITZI DOG MANAGEMENT CO LLC	EDR Digital Archive
	CHANG MINNIE	EDR Digital Archive
	TOKYO HOUSE	EDR Digital Archive
	GRASS BURGER LLC	EDR Digital Archive
	ESSENCE OF NATURE	EDR Digital Archive
	MARCONDAS MEATS INC	EDR Digital Archive
	CAMPER ATLANTIC CORP	EDR Digital Archive
	DU PARS REST & BAKERIES CORP	EDR Digital Archive
	TBILISI & YEREVAN BAKERY	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	POWERCELL	EDR Digital Archive
	LOTERIA GRILL HOLLYWOOD	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	URBAN TRIBES	EDR Digital Archive
	KIPS TOYLAND	EDR Digital Archive
	SHINE GALLERY	EDR Digital Archive
	GILLS ICE CREAM CALIFORNIA	EDR Digital Archive
	GIFT & GADGET NOOKS INC	EDR Digital Archive
	FRENCH CREPE CO	EDR Digital Archive
	CHINA DEPOT	EDR Digital Archive
	SUSHI A GOGO	EDR Digital Archive
	FARMERS MARKET SHOE REPAIR	EDR Digital Archive
	T& Y BAKERY	EDR Digital Archive
	PURITAN POULTRY	EDR Digital Archive
	GUMBO POT	EDR Digital Archive
	MONSTER TALENT MANAGEMENT INC	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
2010	SHELTAM BOOKS	EDR Digital Archive
	DESIGNER DETAILS INC	EDR Digital Archive
	BUTTERFLY SUNSHADE	EDR Digital Archive
	E PLE	EDR Digital Archive
	GARDEN DISTRICT	EDR Digital Archive
	BATH & BODY WORKS INC	EDR Digital Archive
	ROYAL SILVER	EDR Digital Archive
	PA ACQUISITION CORP	EDR Digital Archive
	ITS A BLOOMING BUSINESS	EDR Digital Archive
	GUMBO POT	EDR Digital Archive
	PURITAN POULTRY	EDR Digital Archive
	BRIEF TRANSIT INC	EDR Digital Archive
	THEES CONTINENTAL PASTRIES	EDR Digital Archive
	FARMERS MARKET SHOE REPAIR	EDR Digital Archive
	SUSHI A GOGO	EDR Digital Archive
	CHINA DEPOT	EDR Digital Archive
	FRENCH CREPE CO	EDR Digital Archive
	STROUK GROUP INC	EDR Digital Archive
	GIFT & GADGET NOOKS INC	EDR Digital Archive
	GILLS ICE CREAM CALIFORNIA	EDR Digital Archive
	SHINE GALLERY	EDR Digital Archive
	KIPS TOYLAND	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	FLOWER POWER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	CART PLANET INC	EDR Digital Archive
	MONROEGIFTS CO	EDR Digital Archive
	BALLOONS BALLOONS	EDR Digital Archive
	DU PARS REST & BAKERIES CORP	EDR Digital Archive
	TBILISI & YEREVAN BAKERY	EDR Digital Archive
	WALDERS WINE & SPIRITS	EDR Digital Archive
	BREADWORKS BAKERY	EDR Digital Archive
	ERINSANDERS	EDR Digital Archive
	LITTLE SPAIN	EDR Digital Archive
	REFRESHER	EDR Digital Archive
	MARCONDAS MEATS INC	EDR Digital Archive
	ESSENCE OF NATURE	EDR Digital Archive
	ALEXANDER GINA INC	EDR Digital Archive
	INDIAN DREAM ACCESSORIES	EDR Digital Archive
	TOKYO HOUSE	EDR Digital Archive
	LOTERIA GRILL AT FARMERS MKT	EDR Digital Archive
	JASON MARKS TALENT MANAGEMENT	EDR Digital Archive
	CREATIVE EDGE	EDR Digital Archive
	HUTCHCO	EDR Digital Archive
	BARBERSHOP CLUB	EDR Digital Archive
	IMEDIA MARKETING	EDR Digital Archive
	ULYSSES VOYAGE GREEK REST	EDR Digital Archive
	WOMENS APPAREL	EDR Digital Archive
	AKT HOLDINGS LLC	EDR Digital Archive
	PEAZN AND LOVE	EDR Digital Archive
	SUR LA TABLE INC	EDR Digital Archive
	LADOCA INC	EDR Digital Archive
	PEKING KITCHEN	EDR Digital Archive
	WOODLAND EMBROIDERY	EDR Digital Archive
	LITTLEJOHNS CANDY	EDR Digital Archive
	PRIMESTAR TOURS & CHARTER	EDR Digital Archive
	COST PLUS INC	EDR Digital Archive
	DEANOS PIZZA	EDR Digital Archive
	RALPHS KEY SHOP	EDR Digital Archive
	MARMALADE LLC	EDR Digital Archive
	GAZAL ISAAC	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
	FARM BOY	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	DIVAS WEAR	EDR Digital Archive
	SALAD BAR	EDR Digital Archive
	ZARA	EDR Digital Archive
	STICKER PLANET	EDR Digital Archive
	BOBS COFFEE & DONUT SHOP INC	EDR Digital Archive
	TUSQUELLAS SEA FOODS	EDR Digital Archive
	SPORT FASHIONS	EDR Digital Archive
	EL HIJO DE GRANJERO	EDR Digital Archive
	PHILS ROUND UP AND GRILL INC	EDR Digital Archive
	S B GIFT	EDR Digital Archive
	ICONIC ACCESSORIES	EDR Digital Archive
	CKK GROUP LLC	EDR Digital Archive
	MAGEES FARMER MARKET INC	EDR Digital Archive
	LIGHT MY FIRE	EDR Digital Archive
	326 LLC	EDR Digital Archive
	326 BEER & WINE	EDR Digital Archive
	LEON WEISS SYSTEM WATCH & JWLY	EDR Digital Archive
	WEISS JEWELRY	EDR Digital Archive
	MOISHES	EDR Digital Archive
	AROYAN MOSES	EDR Digital Archive
	SALAD BAR	EDR Digital Archive
	STICKER PLANET	EDR Digital Archive
	SPORT FASHIONS	EDR Digital Archive
	BOBS COFFEE & DONUT SHOP INC	EDR Digital Archive
	TUSQUELLAS SEA FOODS	EDR Digital Archive
	EL HIJO DE GRANJERO	EDR Digital Archive
	PHILS ROUND UP AND GRILL INC	EDR Digital Archive
	ICONIC ACCESSORIES	EDR Digital Archive
	CKK GROUP LLC	EDR Digital Archive
	S B GIFT	EDR Digital Archive
	MAGEES FARMER MARKET INC	EDR Digital Archive
	LIGHT MY FIRE	EDR Digital Archive
	PAMPAS GRILL	EDR Digital Archive
	326 LLC	EDR Digital Archive
	326 BEER & WINE	EDR Digital Archive
	TAMAR KALOUSTIAN	EDR Digital Archive
	MARKET OPTMTRIX DCTORS OPTMTRY	EDR Digital Archive
	WINE GARDEN CAFE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	WEISS JEWELRY	EDR Digital Archive
	LEON WEISS SYSTEM WATCH & JWLY	EDR Digital Archive
	VANCE-WLLIVER HUNTINGTON MEATS	EDR Digital Archive
	DU PARS REST & BAKERIES CORP	EDR Digital Archive
	TBILISI & YEREVAN BAKERY	EDR Digital Archive
	FLOWER POWER	EDR Digital Archive
	CART PLANET INC	EDR Digital Archive
	MONROEGIFTS CO	EDR Digital Archive
	BALLOONS BALLOONS	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	WALDERS WINE & SPIRITS	EDR Digital Archive
	BREADWORKS BAKERY	EDR Digital Archive
	ERINSANDERS	EDR Digital Archive
	LITTLE SPAIN	EDR Digital Archive
	REFRESHER	EDR Digital Archive
	MARCONDAS MEATS INC	EDR Digital Archive
	ESSENCE OF NATURE	EDR Digital Archive
	TOKYO HOUSE	EDR Digital Archive
	LOTERIA GRILL AT FARMERS MKT	EDR Digital Archive
	JASON MARKS TALENT MANAGEMENT	EDR Digital Archive
	CREATIVE EDGE	EDR Digital Archive
	IMEDIA MARKETING	EDR Digital Archive
	HUTCHCO	EDR Digital Archive
	BARBERSHOP CLUB	EDR Digital Archive
	ULYSSES VOYAGE GREEK REST	EDR Digital Archive
	WOMENS APPAREL	EDR Digital Archive
	AKT HOLDINGS LLC	EDR Digital Archive
	PEAZN AND LOVE	EDR Digital Archive
	ALEXANDER GINA INC	EDR Digital Archive
	INDIAN DREAM ACCESSORIES	EDR Digital Archive
	KIPS TOYLAND	EDR Digital Archive
	PEKING KITCHEN	EDR Digital Archive
	WOODLAND EMBROIDERY	EDR Digital Archive
	LITTLEJOHNS CANDY	EDR Digital Archive
	PRIMESTAR TOURS & CHARTER	EDR Digital Archive
	DEANOS PIZZA	EDR Digital Archive
	COST PLUS INC	EDR Digital Archive
	RALPHS KEY SHOP	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	MARMALADE LLC	EDR Digital Archive
	GAZAL ISAAC	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
	FARM BOY	EDR Digital Archive
	DIVAS WEAR	EDR Digital Archive
	ZARA	EDR Digital Archive
	SHELTAM BOOKS	EDR Digital Archive
	DESIGNER DETAILS INC	EDR Digital Archive
	BUTTERFLY SUNSHADE	EDR Digital Archive
	E PLE	EDR Digital Archive
	GARDEN DISTRICT	EDR Digital Archive
	BATH & BODY WORKS INC	EDR Digital Archive
	ROYAL SILVER	EDR Digital Archive
	PA ACQUISITION CORP	EDR Digital Archive
	ITS A BLOOMING BUSINESS	EDR Digital Archive
	MOISHES	EDR Digital Archive
	AROYAN MOSES	EDR Digital Archive
	PURITAN POULTRY	EDR Digital Archive
	BRIEF TRANSIT INC	EDR Digital Archive
	THEES CONTINENTAL PASTRIES	EDR Digital Archive
	FARMERS MARKET SHOE REPAIR	EDR Digital Archive
	SUSHI A GOGO	EDR Digital Archive
	CHINA DEPOT	EDR Digital Archive
	FRENCH CREPE CO	EDR Digital Archive
	STROUK GROUP INC	EDR Digital Archive
	GIFT & GADGET NOOKS INC	EDR Digital Archive
	GILLS ICE CREAM CALIFORNIA	EDR Digital Archive
	SHINE GALLERY	EDR Digital Archive
	SUR LA TABLE INC	EDR Digital Archive
	LADOCA INC	EDR Digital Archive
	PAMPAS GRILL	EDR Digital Archive
	VANCE-WLLIVER HUNTINGTON MEATS	EDR Digital Archive
	TAMAR KALOUSTIAN	EDR Digital Archive
	MARKET OPTMTRIX DCTORS OPTMTRY	EDR Digital Archive
	WINE GARDEN CAFE	EDR Digital Archive
	GUMBO POT	EDR Digital Archive

FINDINGS

W 3RD ST

6333 W 3RD ST

Year	*Uses*	*Source*
2006	INDIAN DREAM	Haines Company, Inc.
	ACCESSORIES	Haines Company, Inc.
	JACK GALLERY	Haines Company, Inc.
	JOHNNY ROCKETS	Haines Company, Inc.
	KIPSTOYLAND	Haines Company, Inc.
	KOKOMO CAFE	Haines Company, Inc.
	LATOURS OF	Haines Company, Inc.
	CALIFORNIA	Haines Company, Inc.
	LIGHTMYFIRE	Haines Company, Inc.
	LITTLE JOHNS	Haines Company, Inc.
	ENGLSH TFFEE HSE	Haines Company, Inc.
	LOTERIA GRILL AT	Haines Company, Inc.
	FARMERS MRKT	Haines Company, Inc.
	LUSTRE	Haines Company, Inc.
	MACHADO	Haines Company, Inc.
	BRAZIUAN JIU	Haines Company, Inc.
	JITSU	Haines Company, Inc.
	MAGEES	Haines Company, Inc.
	MAKING HISTORY	Haines Company, Inc.
	MARCONDASMEAT	Haines Company, Inc.
	MARKET GRILL	Haines Company, Inc.
	MARKET OPTOMTRX	Haines Company, Inc.
	DOCTRS OPTMTRY	Haines Company, Inc.
	MARMALADE CAFE	Haines Company, Inc.
	MOISHES	Haines Company, Inc.
	RESTAURANT	Haines Company, Inc.
	PAMPAS GRILL	Haines Company, Inc.
	PARTYAMERICA	Haines Company, Inc.
	PATSYS DAMORE	Haines Company, Inc.
	PIZZA	Haines Company, Inc.
	PATSYS PIZZA	Haines Company, Inc.
	PHILS DELISGRILL	Haines Company, Inc.
	PURITAN POULTRY	Haines Company, Inc.
	RALPHS KEYSHOP	Haines Company, Inc.
	ROYAL SILVER	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	SALAD BAR	Haines Company, Inc.
	SHELTAMS	Haines Company, Inc.
	SHELTAMS NEWS	Haines Company, Inc.
	ON THIRD	Haines Company, Inc.
	SINGAPORES	Haines Company, Inc.
	BANANA LEAF	Haines Company, Inc.
	SPORTEFASHION	Haines Company, Inc.
	STARBUCKS	Haines Company, Inc.
	COFFEE	Haines Company, Inc.
	STICKER PLANET	Haines Company, Inc.
	STICKERMADNESS	Haines Company, Inc.
	SURLATABLE	Haines Company, Inc.
	SUSHI A GOGO	Haines Company, Inc.
	TBILISI &YEREVAN	Haines Company, Inc.
	BAKERY	Haines Company, Inc.
	TESQUELLAS FISH	Haines Company, Inc.
	& OYSTER BAR	Haines Company, Inc.
	THE VILLAGE	Haines Company, Inc.
	THNEES	Haines Company, Inc.
	CONTINENTAL	Haines Company, Inc.
	PASTRIES	Haines Company, Inc.
	THIRD STREET	Haines Company, Inc.
	VENTURES	Haines Company, Inc.
	THKREE DOG	Haines Company, Inc.
	BAKERY	Haines Company, Inc.
	TONYS PIZZA	Haines Company, Inc.
	SPAGHETTI	Haines Company, Inc.
	TREASURES OFTHE	Haines Company, Inc.
	PACIFIC	Haines Company, Inc.
	FARMERS MARKET	Haines Company, Inc.
	BATH & BODY	Haines Company, Inc.
	WORKS	Haines Company, Inc.
	BUTTERFLY	Haines Company, Inc.
	ULTIMATE NUT&	Haines Company, Inc.
	CANDY COMPANY	Haines Company, Inc.
	ULYSSES VOYAGE	Haines Company, Inc.
	WEISS JEWELRY	Haines Company, Inc.
	WOODLAND	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	EMBROIDERY	Haines Company, Inc.
	WORLD MARKET	Haines Company, Inc.
	SUNSHADE	Haines Company, Inc.
	BY CANDLELIGHT	Haines Company, Inc.
	CHINA DEPOT	Haines Company, Inc.
	COFFEE BEAN&TEA	Haines Company, Inc.
	COST PLUS WORLD	Haines Company, Inc.
	MARKET	Haines Company, Inc.
	DESIGNER DETAILS	Haines Company, Inc.
	DU PARS	Haines Company, Inc.
	CORPORATE	Haines Company, Inc.
	OFFICES	Haines Company, Inc.
	DUCKSOUP	Haines Company, Inc.
	ESSENCEOF	Haines Company, Inc.
	NATURE	Haines Company, Inc.
	FARM FRESH	Haines Company, Inc.
	FARM FRESH	Haines Company, Inc.
	FARMERS MKT	Haines Company, Inc.
	FARMERS MKT	Haines Company, Inc.
	ADMINISTRATION	Haines Company, Inc.
	FARMERS MKT	Haines Company, Inc.
	NEWSTND	Haines Company, Inc.
	FARMERS MRKT	Haines Company, Inc.
	PHAR ENTP LLC	Haines Company, Inc.
	FLOWER POWER	Haines Company, Inc.
	FRANCESCAS	Haines Company, Inc.
	COLLECTIONS	Haines Company, Inc.
	FRENCH CREPECO	Haines Company, Inc.
	FRENCH CREPE	Haines Company, Inc.
	COMPANY FRUIT COMPANY	Haines Company, Inc.
	GILLOLD	Haines Company, Inc.
	FASHIONED ICE	Haines Company, Inc.
	CREAM	Haines Company, Inc.
	GILLSOLD	Haines Company, Inc.
	FASHIONED ICE	Haines Company, Inc.
	GUMBOPOTTHE	Haines Company, Inc.
	HUNTGTN MEATS	Haines Company, Inc.
	HUTCHCO	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	TECHNOLOGIES	Haines Company, Inc.
1985	GRAY LINE TOURS COMPANY	Pacific Bell
	Farmers Market	Pacific Bell
	B DALTON BOOKSELLER LOS ANGELES	Pacific Bell
	GRAY LINE SIGHTSEEING TOURS FARMERS MARKET	Pacific Bell
	DALTON B BOOKSELLER LOS ANGELES	Pacific Bell
	GRAY LINE SIGHTSEEING TOURS FARMERS MARKET	Pacific Bell
	GRAY LINE TOURS FARMERS MARKET	Pacific Bell
	GRAY LINE TOURS CHARTER SERVICE FARMERS MARKET	Pacific Bell
1980	Farmers Market	Pacific Telephone
	B DALTON BOOKSELLER LOS ANGELES	Pacific Telephone
1976	ALEXANDERS GROCERY	Pacific Telephone
	Altabets Flower Shop	Pacific Telephone
	B DALTON PICKWICK BOOKSELLERS	Pacific Telephone
	Los Angeles	Pacific Telephone
	BARENGO VINEYARDS INC	Pacific Telephone
	BARENGO WINE TASTING CELLAR	Pacific Telephone
	CASTILLOS SPANISH KITCHEN	Pacific Telephone
	Charlies	Pacific Telephone
	Egg Basket	Pacific Telephone
	FARMERS MKT FRUIT & PRODUCE	Pacific Telephone
	Farmers Market Magic & Fun Shop	Pacific Telephone
	Hanson Galleries	Pacific Telephone
	Junior League Of Los Angeles	Pacific Telephone
	La Frieda Meats	Pacific Telephone
	Meshulams Inc	Pacific Telephone
	Michaels Gourmet Pastry	Pacific Telephone
	Phils Roundup	Pacific Telephone
	Ralphs Key Shop	Pacific Telephone
	Rogers Wholesale Poultry	Pacific Telephone
	Tonys Pizza Spaghetti	Pacific Telephone
	Vegetable Haven	Pacific Telephone
	Worldwide Fashions	Pacific Telephone
	Young Hoong Corp	Pacific Telephone
1970	BLIND INFORMATION CENTER	Pacific Telephone

Year	Uses	Source
1970	BLIND INFORMATION CENTER	Pacific Telephone
	INFORMATION CENTER FOR THE BLND	Pacific Telephone
1967	BLIND INFORMATION CENTER FOR THE JUNIOR LEAGUE OF L A	Pacific Telephone
	CASTILLOS SPANISH KITCHEN	Pacific Telephone
	Farmers Mkt Newsstand	Pacific Telephone
	Fun Shop	Pacific Telephone
	Salem House	Pacific Telephone
	FARMERS MKT FRUIT & PRODUCE	Pacific Telephone
	Information Center for the Blind Junior League of L A	Pacific Telephone
	Junior League of L A Information Center for the Blind	Pacific Telephone
	Pitts Garden Shop	Pacific Telephone
	Salem House	Pacific Telephone
1966	BLIND INFORMATION CENTER FORTHE JUNIOR LEAGUE OF L A	Pacific Telephone
1965	BLIND INFORMATION CENTER FOR THE JUNIOR LEAGUE OF L A	Pacific Telephone
1958	Farmers Mkt Fruit & Produce	Pacific Telephone
	Hollywood Baseball Club	Pacific Telephone
	Kludjian Margaret Tropics prodc	Pacific Telephone
	Ocean Foods Fish Stall	Pacific Telephone
	Pelwhite Co fish	Pacific Telephone
	Stone Peggy Tropics prodc	Pacific Telephone
	Tropics prodc	Pacific Telephone

6334 W 3RD ST

Year	Uses	Source
2006	TOWN & COUNTRY	Haines Company, Inc.
	NEWSTAND	Haines Company, Inc.
1976	ALLEN WERTZ CANDIES Main Ofc & Store	Pacific Telephone
	Storez Allen Wertz Candies	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
1967	Neill Florence Candles	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Neill Florence Candies	Pacific Telephone

FINDINGS

6336 W 3RD ST

Year	Uses	Source
2006	FRAMES LENSES	Haines Company, Inc.
1976	TOWN & COUNTRY CENTER	Pacific Telephone
	Storez Charmaine	Pacific Telephone
	Charmaine	Pacific Telephone
1967	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Charmaine	Pacific Telephone
	Charmalne	Pacific Telephone

6338 W 3RD ST

Year	Uses	Source
2006	WIGS TODAY	Haines Company, Inc.
1976	Storez Mr Lous Beauty Supplies & Wigs	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Mr Lous Beauty Supplies & Wigs	Pacific Telephone
1967	Lillians Corset & Lingerie Shoppe	Pacific Telephone
	Lilyans Corset & Lingerle Shoppe	Pacific Telephone
	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Lilyans Corset & Lingerie Shoppe	Pacific Telephone

6342 W 3RD ST

Year	Uses	Source
1976	Evas Bakery	Pacific Telephone
	TOWN & COUNTRY CENTER	Pacific Telephone
	Storez Evas Bakery	Pacific Telephone
1967	Evas Bakery	Pacific Telephone

6356 W 3RD ST

Year	Uses	Source
1967	Love David G Dr Optmtrst	Pacific Telephone
	Vaupen Elliot Dr optmtrst	Pacific Telephone

6366 W 3RD ST

Year	Uses	Source
1970	MR GUY GENTLEMENS OUTFTRS CLOTHING & HABERDASHERY	Pacific Telephone
	MR GUY GENTLEMENS OUTFTRS CLOTHING & HABERDASHERY	Pacific Telephone
1967	TOWN & COUNTRY CENTER Stores	Pacific Telephone
	Mr Guy gentlemens outftrs	Pacific Telephone

FINDINGS

Year	Uses	Source
1967	GUY MR gentlermens outftrs	Pacific Telephone
	MR GUY gentlemens outftrs Clothing & Haberdashery	Pacific Telephone
	Ladies Shop	Pacific Telephone
	MR GUY gentlemens outftrs Clothing & Haberdashery	Pacific Telephone
	MR GUY gentlemens outftrs Clothing & Haberdashery	Pacific Telephone
	Offices	Pacific Telephone
1966	MR GUY GENTLEMENS OUTFTRS CLOTHING & HABERDASHERY	Pacific Telephone
	MR GUY GENTLEMENS OUTFTRS CLOTHING & HABERDASHERY	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
6310 W. Third Street	2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1975, 1972, 1970, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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
300 S Fairfax Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
300 S Fairfax Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
300 S FAIRFAX AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
301 S FAIRFAX AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
310 S FAIRFAX AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
325 S FAIRFAX AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
327 FAIRFAX AVE S	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

APPENDIX C

Prior Report

OCT 19 2004

EBI CONSULTING

National Environmental Management and Engineering Services

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT



TOWN & COUNTRY RETAIL
6310-6360 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

EBI Project #24-1775A

August 13, 2004

Prepared for:

AETNA REAL ESTATE INVESTMENTS
151 FARMINGTON AVENUE
HARTFORD, CT 06156-9642

EBI Consulting
Four A Street
Burlington, MA 01803
Phone: 781.273.2500
Toll Free: 800.786.2346
Fax: 781.273.3311

EBI CONSULTING
FOUR A STREET
BURLINGTON, MA 01803
800-786-2346
PROJECT #24-1775A

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Town & Country Retail
6310-6360 West Third Street
Los Angeles, California 90036

Prepared for:

Aetna Real Estate Investments
151 Farmington Avenue
Hartford, CT 06156-9642

EBI
CONSULTING
ENVIROBUSINESS, INC.
FOUR A STREET, BURLINGTON, MA 01803
TEL 781-273-2500 FAX 781-273-3311
www.ebiconsulting.com

ATLANTA, GA
BALTIMORE, MD
BURLINGTON, MA
CHICAGO, IL
DALLAS, TX
DENVER, CO
EXETER, NH
HOUSTON, TX
LOS ANGELES, CA
NAPLES, FL
PHOENIX, AZ
PORTLAND, OR
SAN FRANCISCO, CA
SEATTLE, WA
WARWICK, RI
YORK, PA

August 13, 2004

Mr. Jack Maher
Aetna Real Estate Investments
151 Farmington Avenue
Hartford, CT 06156-9642

Subject: **Phase I Environmental Site Assessment Report, Town & Country Retail**
6310-6360 West Third Street, Los Angeles, California
EBI Project #24-1775A

Dear Mr. Maher:

Attached please find our *Phase I Environmental Site Assessment Report*, (the *Report*) for the above-mentioned asset (the Subject Property). During the survey and research, our surveyor met with agents representing the Subject Property, or agents of the owner, and reviewed the Subject Property and its history. The *Report* was completed according to the terms and conditions authorized by you. This *Report* has been completed in general conformance with the ASTM Practice E 1527.

The purpose of this *Report* is to assist *Aetna Real Estate Investments* in its underwriting of a proposed mortgage loan on the Subject Property described herein.

This *Report* is addressed to *Aetna Real Estate Investments* and such other persons as may be designated by *Aetna Real Estate Investments* and their respective successors and assigns.

Reliance on the *Report* and the information contained herein shall mean (i) the *Report* may be relied upon by *Aetna Real Estate Investments*, in determining whether to make a loan evidenced by a note secured by the Subject Property ("the Mortgage Loan"); (ii) the *Report* may be relied upon by any loan purchaser in determining whether to purchase the Mortgage Loan from *Aetna Real Estate Investments*, or an interest in the Mortgage Loan or securities backed or secured by the Mortgage Loan, and any rating agency rating securities representing an interest in the Mortgage Loan or backed or secured by the Mortgage Loan; (iii) the *Report* may be referred to in and included, in whole or in part, with materials offering for sale the Mortgage Loan or an interest in the Mortgage Loan or securities backed or secured by the Mortgage Loan; (iv) the *Report* speaks only as of its date in the absence of a specific written update of the *Report* signed and delivered by EBI Consulting.

There are no intended or unintended third party beneficiaries to this *Report*, except as expressly stated herein.

EBI is an independent contractor, not an employee of either the issuer or the borrower, and its compensation was not based on the findings or recommendations made in the *Report* or on the closing of any business transaction.

Thank you for the opportunity to prepare this *Report*, and assist you with this project. Please call us if you have any questions or if we may be of further assistance.

Respectfully Submitted,

Tiffany Grant
Author/Environmental Scientist

Richard B. McKinney (661) 871-2281
Reviewer/Senior Program Director

Richard MacAulay
Managing Consultant

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EXECUTIVE SUMMARY

The Subject Property, known as Town & Country Retail, was reportedly constructed in 1961, and consists of a multi tenant retail center with three one, two, and three story buildings totaling 228,390± net rentable square feet on a 7.5-acre lot. The Subject Property is located in Los Angeles, Los Angeles County, California at 6310-6360 West Third Street. Los Angeles is located in Southern California, and the Subject Property is approximately 10 miles west of downtown Los Angeles. The current tenancy is retail use.

Ms. Tiffany Grant of EBI surveyed the Subject Property on July 28, 2004. She was accompanied by and interviewed Mr. Michael Turner, the owner's representative. At the time of the survey, the weather was sunny and approximately 75° Fahrenheit. During the survey, representative tenant spaces, mechanical spaces and/or equipment components were observed. EBI was not provided with access to the bank basement, behind counters, or vault areas. A Pre-Survey Questionnaire was forwarded to the designated Subject Property contact and has been returned.

Below is the Assessment Summary presenting our recommended actions for the Subject Property. Additional detail regarding each recommended action is provided in *Section 7.0.*

ASSESSMENT SUMMARY TABLE

REPORT COMPONENT	SECTION (S)	CONCERN NOTED OR REPORTED	RECOMMENDED ACTIONS	ESTIMATED COST
Current Tenant or Property Use Concerns	3.2	✔	No Further Action Methane gas pressure and gas concentration monitoring is ongoing at the Subject Property and appears to be performed in accordance with regulatory requirements. At this time, the results of the semi-weekly gas monitoring indicate no apparent environmental concern to the Subject Property or the Public.	
ASTs/USTs	3.3		No Further Action	
Suspect Asbestos Containing Material (ACM)	3.4	✔	EBI laboratory results for asbestos are pending. Previous asbestos survey reports identified ACM at the Subject Property. Develop and implement an asbestos operations and maintenance (O&M) plan	$500.00
Radon	3.5		No Further Action	
Lead-based Paint	3.6		No Further Action	
Lead in Water	3.7		No Further Action	
Suspect PCB-containing Equipment	3.10	✔	Light ballasts potentially contain PCBs. Light ballasts should be discarded in accordance with regulatory disposal requirements.	Action Item

ASSESSMENT SUMMARY TABLE				
REPORT COMPONENT	**SECTION (S)**	**CONCERN NOTED OR REPORTED**	**RECOMMENDED ACTIONS**	**ESTIMATED COST**
Historical Use of Subject Property	4.0	✔	A previous limited subsurface soil investigation report indicated elevated concentrations of total petroleum hydrocarbons in soil. No further action was taken at that time. The potential exists for elevated concentrations, potentially hazardous concentrations, of contaminants of concern in subsurface soil at the Subject Property. EBI recommends further subsurface assessment of soil for contaminants of concern in the event of future soil excavation at the Subject Property. Two oil wells, abandoned in the 1930s, are located on the Subject Property. The abandoned wells may be a conduit for methane gas migration to the surface. The potential exists for a requirement at some time in the future to re-abandon these wells. Costs associated with oil well re-abandonment can be significant.	Action Item
Potential Off-site Sources	3.12, 5.0			
Federal, State and Local Agency Concerns	5.2, 5.3, 5.4			

1.0 PURPOSE & LIMITATIONS

The purpose of this *Phase I Environmental Site Assessment Report* (the *Report*) is to assist *Aetna Real Estate Investments* in its underwriting of a proposed mortgage loan on the Subject Property. This *Report* can be relied upon by only the parties stated in the transmittal letter at the front of this *Report*. EBI's liability to a purchaser wishing to use this *Report* is limited to the cost of the *Report*. Amendments to EBI's limitations as stated herein that may occur after issuance of the *Report* are considered to be included in this *Report*. Payment for the *Report* is made by, and EBI's contract and *Report* extends to *Aetna Real Estate Investments* only, in accordance with our *Standard Conditions For Engagement* and, *Authorization Letter* and *Agreement for Environmental Services*.

The additional purpose of this *Report* is to assess a parcel of *real estate* with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and *petroleum products*. As such, this practice is intended to permit *Aetna Real Estate Investments* to satisfy one of the requirements to qualify for the *innocent landowner defense* to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the Subject Property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35)(B).

In defining a standard of good commercial and customary practice for conducting an *environmental site assessment* of a parcel of *property*, the goal of the processes established by this practice is to identify *recognized environmental conditions*. The term *recognized environmental conditions (RECs)* means the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a material threat of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, ground water, or surface water of the *property*. The term includes *hazardous substances* or *petroleum products* even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not *RECs*.

EBI has performed this *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527. This *Report* was prepared with no exceptions or deletions from ASTM Standard E1527.

SCOPE OF WORK

This *Report* was prepared for the use of *Aetna Real Estate Investments*. This *Report* has been prepared in accordance with our *Standard Conditions For Engagement* and *Authorization Letter* and *Agreement for Environmental Services* approved and signed by *Aetna Real Estate Investments*, and with the limitations described below, all of which are integral parts of this *Report*. A copy of the signed *Standard Conditions For Engagement* and *Authorization Letter* and *Agreement for Environmental Services* is maintained at the EBI Consulting office in Burlington, Massachusetts.

The information reported was obtained through sources deemed reasonably ascertainable, as defined in ASTM E1527-00; a visual site survey of areas readily observable, easily accessible or made accessible by the Subject Property contact and interviews with owners, agents, occupants, or other appropriate persons involved with the Subject Property. Municipal information was obtained through file reviews of reasonably ascertainable standard government record sources, and interviews with the authorities having jurisdiction over the Subject Property. Findings, conclusions and recommendations included in the *Report* are based on our visual observations in the field, the municipal information reasonably obtained, information provided by the Client, and/or a review of readily available and supplied drawings and documents. EBI relies completely on the information, whether written, graphic or verbal, provided by the Subject Property contact or as shown on any documents reviewed or received from the Subject Property contact, owner or agent, or municipal source, and assumes that information to be true and correct. Although there may have been some degree of overlap in the information provided by these various sources, EBI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of these *Environmental Services*.

The observations in this *Report* are valid on the date of the investigation. Where access to portions of the Subject Property or to structures on the Subject Property was unavailable or limited, EBI renders no opinion as to the presence of petroleum products or hazardous substances in that portion of the Subject Property or structure. Inaccessible portions of the Subject Property are described below. In addition, EBI renders no opinion as to the

presence of, or indirect evidence relating to, petroleum products or hazardous substances where direct observation of the interior walls, floor, or ceiling of a structure was obstructed by objects or coverings on or over these surfaces.

It is acknowledged that EBI judgments shall not be based on scientific or technical tests or procedures beyond the scope of the Services or beyond the time and budgetary constraints imposed by the Client. It is acknowledged further that EBI conclusions shall not rest on pure science but on such considerations as economic feasibility and available alternatives. Client also acknowledges that, because geologic and soil formations are inherently random, variable, and indeterminate in nature, the Services and opinions provided under this Agreement with respect to such Services, are not guaranteed to be a representation of actual conditions on the Subject Property, which are also subject to change with time as a result of natural or man-made processes, including water permeation. In performing the Services, EBI shall use that degree of care and skill ordinarily exercised by environmental consultants or engineers performing similar services in the same or similar locality. The standard of care shall be determined solely at the time the Services are rendered and not according to standards utilized at a later date. The Services shall be rendered without any other warranty, expressed or implied, including, without limitation, the warranty of merchantability and the warranty of fitness for a particular purpose.

Client and EBI agree that to the fullest extent permitted by law, EBI shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by EBI's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause or causes whatsoever.

The ASTM Standard E1527 does not encompass analytical testing to evaluate Asbestos Containing Materials (ACM), radon, lead-based paint (LBP), drinking water quality, indoor air quality, stored chemicals, debris, fill materials, surface water, or subsurface samples (soil and groundwater) as part of a Phase I ESA. EBI performed testing at the Subject Property in accordance with the *Standard Conditions For Engagement* and, *Authorization Letter* and *Agreement for Environmental Services* and the client-specific *Scope of Work*. Unless otherwise specified herein, such testing involves screening methods intended to provide a broad and approximate evaluation of conditions at readily accessible portions of the Subject Property, limited by project constraints, and should not be construed as a comprehensive program designed to comply with a specific regulatory program. If a thorough and regulatory-compliant study is warranted based on the findings of the Phase I ESA, EBI will recommend the appropriate further investigation. In certain cases, quantitative laboratory testing is performed as part of the assessment and analyses have been conducted by an outside laboratory. EBI relies upon the data provided by the outside laboratory, and has not conducted an independent evaluation of the reliability of this data.

The assessment was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession, and in accordance with generally accepted practices of other consultants currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended. The *Report* speaks only as of its date, in the absence of a specific written update of the *Report*, signed and delivered by EBI. Additional information that becomes available after our survey and draft submission concerning the Subject Property should be provided to EBI so that our conclusions may be revised and modified if necessary, at additional cost. This *Report* has been prepared in accordance with our Standard Conditions for Engagement, which is an integral part of this *Report.*

INACCESSIBLE OR UN-SURVEYED PORTIONS OF SUBJECT PROPERTY

EBI was not provided access to the bank building basement, vault, or behind counter areas. There were no other notable portions of the Subject Property excluded from this survey.

ABBREVIATIONS

EBI may use various abbreviations to describe various site, building or system components or legal descriptions. Not all abbreviations may be applicable to all reports. The abbreviations most often utilized are defined below.

ACM	Asbestos-containing material	HVAC	Heating, ventilating and air conditioning
AST	Aboveground storage tank	MSDS	Material Safety Data Sheet(s)
CMU	Concrete masonry unit	REC	Recognized environmental condition
EIFS	Exterior insulating finishing system	RTU	Rooftop (HVAC) unit
FOIA	Freedom of Information Act	UST	Underground storage tank
LBP	Lead-based paint	VCT	Vinyl composition tile

2.0 SUBJECT PROPERTY CHARACTERISTICS

2.1 OWNERSHIP AND LOCATION

According to the Los Angeles County Assessor's Office and Mr. Michael Turner, the Subject Property is owned by Third & Fairfax, LLC. The Subject Property is zoned commercial industrial and consists of seven parcels numbered 5509-018-003, 004, 005, 010, 012, and 013. The Subject Property is located in Los Angeles, Los Angeles County, California at 6310-6360 West Third Street. The Subject Property is adjacent to the intersection of Third and Fairfax on the Southeast corner. *Figure 1, Location Map* attached to this *Report* depicts the Subject Property on a street map of the vicinity.

Figure 2, Topographic Map attached to this *Report* depicts the Subject Property on a portion of the *Hollywood, California* United States Geological Survey (USGS) Topographic Quadrangle.

Figure3, Site Plan attached to this *Report* depicts the immediate vicinity of the Subject Property.

2.2 DESCRIPTION AND OPERATIONS

LAND AND BUILDING AREAS

Areas of the Subject Property not improved with buildings include asphalt paving surrounding the buildings that is used as parking and trash collection areas. Minimal landscaping is scattered throughout the Subject Property. An outdoor eating area is located in an enclosure between the Subject Property buildings. The main building occupies the southern portion of the Subject Property. An alley with loading docks is located to the south of the buildings. A bank building is located on the northwestern corner of the Subject Property. The Savon, bank building and Kmart buildings have basements.

CURRENT TENANTS AND USE OF THE SUBJECT PROPERTY

At the time of EBI's survey, several retail tenants occupied the Subject Property. The current tenants and their activities/business type are summarized in the Table below. EBI was provided with a copy of the most recent rent roll, which is appended to this *Report.*

CURRENT TENANTS/ACTIVITIES

TENANT NAME	REPORTED SQUARE FOOTAGE	USE OF TENANT	ARE HAZARDOUS MATERIALS PRESENT?	TYPE AND AMOUNT OF MATERIALS GENERATED	STAINING/CONDITION OF STORAGE/ CONTAINMENT
Sav-On	23,040	Drug Store	Yes	Silver recovery from photo processing operations.	Minor staining, no secondary containment, poor housekeeping around developer.
Whole Foods	29,928	Grocery Store	No	N/A	N/A
Anna's Linens	7,033	Linen Store	No	N/A	N/A
K-Mart	138,147	Retail Store	Yes	Silver recovery from photo processing operations.	Minor staining, secondary containment present.
				Used Car Battery Cores	No staining, no secondary containment.
Citibank	11,249	Bank	No	N/A	N/A

CURRENT TENANTS/ACTIVITIES					
TENANT NAME	**REPORTED SQUARE FOOTAGE**	**USE OF TENANT**	**ARE HAZARDOUS MATERIALS PRESENT?**	**TYPE AND AMOUNT OF MATERIALS GENERATED**	**STAINING/CONDITION OF STORAGE/ CONTAINMENT**
Payless Shoesource	3,804	Retail Shoe Store	No	N/A	N/A
Thai Patio	2,207	Restaurant	No	Grease waste from cooking disposed of in shared grease container.	Some cooking grease staining on asphalt/concrete, no secondary containment.
Andre's of Town and Country	4,315	Restaurant	No	Grease waste from cooking disposed of in shared grease container.	Some cooking grease staining on asphalt/concrete, no secondary containment.
Fortune Plate	1,770	Restaurant	No	Grease waste from cooking disposed of in shared grease container.	Some cooking grease staining on asphalt/concrete, no secondary containment.
Fresh Start	1,908	Restaurant	No	Grease waste from cooking disposed of in shared grease container.	Some cooking grease staining on asphalt/concrete, no secondary containment.
Saka's Outlet	934	Retail	No	N/A	N/A
Fashion Studio	2,170	Retail	No	N/A	N/A
Tong-Shin Newsstand	612	Retail	No	N/A	N/A
Vista Optical	600	Retail	No	N/A	N/A
Wigs Today	675	Retail	No	N/A	N/A
Van Wagner Communications	Billboard	-	No	N/A	N/A
A-1 Keys	Kiosk	Retail	No	N/A	N/A
United Mobile Phone	72	Retail	No	N/A	N/A

The current uses of the Subject Property do not represent a potential environmental concern. However, improved housekeeping of photochemicals and placement of secondary containment beneath all photochemicals and photochemical waste is recommended to mitigate a release of chemicals to the flooring.

2.3 MUNICIPAL SERVICES & UTILITIES

2.3.1 Water & Sewer

Domestic drinking water is provided by the *Los Angeles Department of Water and Power (LADWP)*. The Subject Property is reportedly connected to the municipal sewer system, which is maintained by the *LADWP*.

2.3.2 Gas/Oil

The Gas Company provides gas service to the Subject Property. No oil service is provided to the Subject Property.

2.3.3 Electrical

Los Angeles Department of Water and Power supplies electrical service to the Subject Property. Two pad-mounted transformers are located in the rear of the Subject Property buildings. No leaks or staining was observed around the transformers. According to the LADWP, four transformers are located at the Kmart Store. The transformers are discussed in *Section 3.10* of this *Report*.

3.0 SUBJECT PROPERTY RECONNAISSANCE

3.1 INTERIOR SURVEY

The following table summarizes issues on which the survey of interior areas of the Subject Property focused:

INTERIOR SURVEY		
ITEM	NOTED	LOCATION AND DESCRIPTION
Processes that generate petroleum products or hazardous substances		N/A
Unusual odors		N/A
Pools of liquid		N/A
Containers not attributed to current use of the Subject Property		N/A
Stains or corrosion		N/A
Drains and Sumps	✔	Floor drains are located throughout the Subject Property. Sumps are located in the Kmart basement area.
Oil-containing equipment	✔	Oil-containing equipment at interior portions of the Subject Property include hydraulic balers at Savon and KMart. (See *Section 3.10*)

3.2 USAGE, HANDLING AND DISPOSAL OF PETROLEUM PRODUCTS AND/OR HAZARDOUS SUBSTANCES

Routine quantities of hazardous chemicals, oils, lubricants and cleaning chemicals are used to maintain the Subject Property. These materials include cleaning compounds, paints, thinners, gasoline and joint compounds. Materials observed at the Subject Property are utilized during routine operations and do not result in the generation of regulated waste. No evidence of significant leaks or spills was noted during EBI's site visit.

The Subject Property operations include two photo-developing stations located in Savon and KMart that use automated photo processors with small volumes of photochemicals. EBI observed the limited quantity of photo developing chemicals to be poorly stored and managed in the Savon and properly stored and maintained in KMart. EBI recommends improved housekeeping at the Savon photoprocessing center to mitigate the release of photochemicals or waste. The discharge of the used chemicals includes filtration of the chemicals through a silver recovery system. Recovered silver is contained in an approximately five-gallon plastic vessel in Kmart and in 55-Gallon Drums in Savon. The recovered material is shipped via parcel delivery to a central repository per corporate requirements. No hazardous wastes are disposed at the Subject Property. The spent photo processing chemicals are flushed into the sanitary sewer following filtration and removal of the silver, in accordance with regulatory requirements.

3.3 ABOVEGROUND/UNDERGROUND STORAGE TANKS (ASTs/USTs)

Based on observations, interviews and a review of state and local records, there are no indications of USTs or ASTs located at the Subject Property. Historic USTs and ASTs is/are discussed in *Section 4.0* and *Section 5.3* of this *Report*.

3.4 ASBESTOS-CONTAINING MATERIAL (ACM)

Asbestos-containing material (ACM) represents a concern when it is subject to damage that results in the release of fibers. Friable ACM, which can be crumbled by hand pressure and is therefore susceptible to damage, is of particular concern. Non-friable ACM is a potential concern if it is damaged by maintenance work, demolition or other activities.

The previous ESA cited in *Section 4.1* of this *Report* did not include sampling and analysis of suspect ACM; however, the report did note suspect ACM in the form of acoustic ceiling spray in the bank building, ceiling panels, ceiling tiles, and flooring materials. The previous report notes a review of asbestos survey reports by Pacific Southwest, WPM Construction Technology, and CF Environmental that reportedly address renovation of limited areas of the property. No other information was provided. The previous report noted that no asbestos surveys were identified for the entire property. ACM identified in the previous asbestos reports reportedly include structural steel fireproofing, pipe insulation, asbestos-cement pipes, flooring materials, and roofing materials.

The Arba Group provided EBI with a previous pre-renovation ACM survey for the Whole Foods Store area. The previous report identified ACM in the form of flex joint, pipe insulation, floor tile, and floor tile mastic. Another previous report supplied by the ARBA Group titled PDG Environmental Close-Out for Whole Foods Space that documented asbestos abatement during September 2001. The report documented the removal of ACM in the form of floor tile, flex joint, and pipe insulation. It was unclear whether the floor tile mastic was removed.

EBI observed friable suspect ACM in the form of trowelled-on stucco and plaster in the basement of Savon, drywall throughout the Subject Property, textured ceiling surfacing, ceiling tile, and spray on fireproofing. In addition, non-friable suspect ACM was observed in the form of terrazzo, vinyl floor tile, roofing materials, and construction mastics at the Subject Property. Where observed, the suspect ACM is intact and in good condition except in the Kmart. It should be noted that additional suspect ACM may be present in portions of the structure that are not accessible, such as behind walls and above ceilings.

As directed by the scope of work for this ESA, EBI collected 20 representative samples of suspect ACM in the form of troweled-on stucco/plaster and drywall. Due to the inaccessible ceiling height, poor condition, and high friability and potential for ACM fiber release and human exposure potential, EBI did not collect samples of the fireproofing in the Kmart. The suspect ACM samples collected by EBI were submitted to Environmental Hazards Laboratory in Richmond, VA to be tested for the presence of asbestos by polarized light microscopy (PLM). The following table below presents the results of the testing.

ASBESTOS SAMPLING RESULTS

SAMPLE ID	LOCATION	MATERIAL	% ASBESTOS	FRIABILITY	CONDITION	ESTIMATED AMOUNT FT2
040728-01	Southwest Basement Corner of	Trowelled on stucco / plaster.	*	Friable	Damaged	500

ASBESTOS SAMPLING RESULTS						
SAMPLE ID	**LOCATION**	**MATERIAL**	**% ASBESTOS**	**FRIABILITY**	**CONDITION**	**ESTIMATED AMOUNT FT2**
	Savon					
040728-02	Southwest Basement Corner of Savon	Trowelled on stucco / plaster.	*	Friable	Damaged	500
040728-03	Southwest Basement Corner of Savon	Trowelled on stucco / plaster.	*	Friable	Damaged	500
040728-04	Main floor of Savon behind employee door.	Drywall	*	Friable	Good	23,040
040728-05	Main Floor stockroom	Drywall	*	Friable	Good	23,040
040728-06	Main Floor stockroom	Drywall	*	Friable	Good	23,040
040728-07	Main Floor stockroom	Drywall	*	Friable	Good	23,040
040728-08	Main Floor Stockroom	Drywall	*	Friable	Good	23,040
040728-09	Main Store	Drywall	*	Friable	Good	23,040
040728-10	Main Store	Drywall	*	Friable	Good	23,040
040728-11	370	Drywall	*	Friable	Good	23,040
040728-12	370	Drywall	*	Friable	Good	23,040
040728-13	370	Drywall	*	Friable	Good	23,040
040728-14	Kmart Basement by escalator	Drywall	*	Friable	Good	138,147
040728-15	Kmart basement stockroom	Drywall	*	Friable	Good	138,147
040728-16	Kmart basement stockroom	Drywall	*	Friable	Good	138,147
040728-17	Kmart basement stockroom	Drywall	*	Friable	Good	138,147
040728-18	Kmart main floor by shoes	Drywall	*	Friable	Good	138,147
040728-19	Kmart upper stair well	Drywall	*	Friable	Good	138,147
040728-20	Kmart 3rd Floor	Drywall	*	Friable	Damaged	138,147

* As of the date of this draft *Report*, EBI has not received the laboratory analysis results.

It should be noted that the visual asbestos screening survey conducted under the scope of this investigation does not constitute a full asbestos inspection, in which all areas of the buildings would have been thoroughly surveyed and sampled. The possibility exists for ACM to be present in areas of the buildings not accessed or sampled by EBI personnel.

Due to the continued distribution of a wide variety of asbestos-containing building materials, asbestos may be present in some of the roofing, flooring, caulking/putties, adhesives, spackling compounds, and/or non-accessible insulation materials at the Subject Property. Sampling of these types of materials require techniques that may be destructive to subject facilities and in the case of roofing material may void warranties. It is recommended that all such possible asbestos-containing materials be tested prior to renovation or demolition activities that could disturb the materials. Any testing, removal, or disturbance of ACM should be handled in compliance with federal, state, and local regulations. Licensed, qualified asbestos abatement personnel should be retained prior to demolition or renovation of subject facilities.

3.5 RADON

Radon is a naturally-occurring, colorless and odorless radioactive gas that is generated primarily in granitic rocks. The United States Surgeon General has published information that radon is a cause of lung cancer. Radon usually enters a building through openings in the foundation, and therefore is a potential health concern to residents of the lowest level of a building with inadequate ventilation.

Due to the non-residential use of the Subject Property, and in accordance with the scope of work for this ESA, radon testing was not performed.

3.6 LEAD-BASED PAINT (LBP)

Use of lead in household paint was banned by the Environmental Protection Agency (EPA) effective January 1, 1978. The EPA considers paint containing greater than 0.5% lead by weight to be "lead-based." Federal regulations specify that lead paint hazards must be abated in residential buildings occupied by children under the age six.

Based on the commercial use of the buildings and the scope of work for this ESA, an LBP survey was not conducted at the Subject Property.

3.7 LEAD IN DRINKING WATER

Lead has historically been used in pipes, solder, and brass fixtures used in water distribution systems and plumbing material. In 1986, EPA banned the use of lead at concentrations exceeding 0.2% lead in solder and 8% lead in other plumbing material. The Los Angeles Department of Water and Power provides domestic water. According to personnel at this agency, potable drinking water is obtained from the eastern Sierra, and the most recent analytical testing data indicates compliance with Safe Drinking Water Act (SDWA) requirements.

3.8 EXTERIOR SURVEY

The following table summarizes issues on which the survey of exterior areas of the Subject Property focused:

EXTERIOR SURVEY		
ITEM	**NOTED**	**LOCATION AND DESCRIPTION**
Storage tanks		N/A
Unusual odors		N/A
Areas of asphalt patch or surface depressions		N/A
Containers not attributed to current use of the Subject Property		N/A
Oil-containing equipment	✔	Two pad-mounted and Four underground transformers are located on the Subject Property (see *Section 3.10*).
Stained soil or pavement		N/A
Stressed vegetation		N/A
Fill material of questionable origin/ Piles		N/A
Wastewater		N/A
Monitoring Wells		N/A
Catch basins or dry wells	✔	Water run-off catch basins are located on the Subject Property and drain to the municipal sewer system.
Septic systems		N/A

3.9 SOLID WASTE DISPOSAL

Solid waste generated at the Subject Property is typical domestic waste consisting of paper, plastics, and food refuse. Solid waste is collected in dumpsters located in enclosures throughout the Subject Property. No evidence of illicit dumping of solid waste was observed during EBI's site visit.

The on-site restaurants generate waste cooking grease. The waste grease is stored in a waste grease container, which are removed monthly by a private waste company. Minor staining was observed around the containers. Cooking grease is non-hazardous and not considered an environmental concern to the Subject Property.

3.10 POLYCHLORINATED BIPHENYLS (PCBS) EQUIPMENT

PCBs were used in the dielectric fluid of some transformers and capacitors manufactured prior to 1979. The EPA banned the use of PCBs in 1978. Potential PCB-containing equipment observed at the Subject Property included several pad-mounted and underground transformers. The transformers appeared to be in good condition and no indications of leaks or staining were observed on or below the transformer casings. The transformers are owned and operated by the regional utility company, *LADWP*, which has indicated that none of the Subject Property transformers contain PCBs over the EPA's maximum

allowable concentration of 50 ppm. A previous Phase I ESA, discussed in section 4.1 of this report stated that the Savon transformer contained 13 ppm of PCB's according to the LADWP, and that the transformers at the Kmart have PCB counts of 8, 9, 13, and 25. EBI contacted the LADWP and requested confirmation of the transformers and PCB results. The LADWP has not responded to EBI's request as of this report. If the provided information has a material affect on the findings of this *Report*, EBI will forward the new information, together with revised findings, as an addendum to this *Report*. If no response is received or no material violations are noted, our *Report* will not be modified. In the event of a release of dielectric fluid from one of its transformers, the utility company typically performs the cleanup.

Potential PCB-containing equipment observed at the Subject Property also includes two hydraulic balers and a trash compactor. There was indication of minor, de minimis, hydraulic fluid leakage around the Savon compactor and the Kmart compactor. No other hydraulically operated equipment was observed at the Subject Property. The Kmart compactor was provided by Consolidate Waste Services and appears to be newer than 1978. Due to the assumed date of construction of the Kmart compactor, it is not suspected to contain PCB's. The date of construction of the Savon hydraulic baler could not be determined; however, recent servicing of the hydraulics suggests the hydraulic fluid does not contain PCBs. No further action is recommended at this time with regards to the two compactor units.

The previous CA Environmental report discussed in section 4.1 of this report stated that PCB containing light ballasts may be present at the Subject Property. EBI noted older light ballasts at the Subject Property and recommended that the unlabeled fluorescent light ballasts should be assumed to contain PCB's and be handled and disposed of in accordance with EPA regulations.

3.11 PHYSICAL SETTING

TOPOGRAPHY
The Subject Property is at an elevation of approximately 183 feet above mean sea level (msl). The Subject Property is flat and sloped down gently to the south. The Subject Property is in a relatively flat and level area (see *Figure 2-Subject Locus Map,* which is a portion of the *Hollywood, California* USGS Quadrangle). The overall slope of the surrounding area is down to the south.

GEOLOGY
Information concerning the geology of the Subject Property was obtained from the USGS Ground Water Atlas of the United States, California region (1995). The Subject Property is located within the Pacific Border physiographic province, which is characterized by steep rolling hills and mountains and consists of severely folded, faulted, commonly metamorphosed marine and continental sediments.

HYDROLOGY/HYDROGEOLOGY
No surface water bodies are present on the Subject Property. Local groundwater gradient is expected to follow surface topography; therefore, groundwater flow near the Subject Property is expected to flow to the south / southeast. Groundwater depths and flow gradients are best evaluated by a subsurface investigation involving the installation of at least three groundwater monitoring wells and precise measurements of hydrostatic pressure.

A previous environmental report by California Environmental, referenced in *Section 4.1* of this *Report,* stated that the Subject Property is located near the northwestern boundary of the Pressure Area of the Los Angeles Central Groundwater Basin. Silts, clays, and sands of the Pleistocene Lakewood Formation reportedly underlie the property. Groundwater occurs in the Exposition Aquifer at a depth of approximately 124 feet below ground surface (bgs). Perched ground water was encountered beneath the

site between 20 to 60 feet bgs. California environmental noted that the probable direction of groundwater flow is towards the south or southeast.

3.12 ADJACENT PROPERTIES

NORTH
The northern boundary of the Subject Property is adjacent to West Third Street. Across Third Street is the Los Angeles Farmers Market and further more commercial and residential areas. No evidence of adverse environmental conditions was observed during the survey of the northern boundary of the Subject Property.

SOUTH
Hancock Park Elementary School borders the Subject Property on the south. Beyond is Parklabrea, which includes the La Brea Tar and Fossil Pits. No evidence of adverse environmental conditions was observed during the survey of the southern boundary of the Subject Property.

EAST
The Subject Property is bordered on the east by Fairfax Avenue. Beyond Fairfax are various commercial properties including and office building, a dry cleaner, a nail salon, a pizza parlor, and a LUST facility discussed in section 5.2.

WEST
The Subject Property is bordered on the west by Ogden Drive. Beyond Ogden Drive is a Ross Department Store and parking area. Beyond are newer apartment buildings. No evidence of adverse environmental conditions was observed during the survey of the western boundary of the Subject Property.

3.13 METHANE

The Subject Property is located in the Salt Lake Oil Field. South of the Subject Property are the La Brea Tar and Fossil Pits. The Subject Property and surrounding area were used for oil production from the 1900's to the 1930's. In the 1930's the local oil derricks and wells were abandoned to make way for urban construction. Accumulation of methane gas, which migrates from the subsurface through soil or other preferential pathways, caused an explosion at the Ross retail store property in 1985, located approximately 500 feet west of the Subject Property. Explosive levels of methane gas were reportedly detected in the Subject Property Kmart store at that time. As a result of the explosion, the Los Angeles City Fire Department issued a methane ordinance requiring methane monitoring and mitigation measures in "High Potential Methane Zone" centered on the Salt Lake Oil Field. As the Subject Property is located within this zone, a methane mitigation and monitoring system was implemented on the Subject Property.

Methane gas is combustible at certain concentrations in air and is odorless, colorless, lighter than air, and formed by the decomposition of organic matter. It is common in swamps, wetlands, peat deposits, oilfields, and old landfills. The gas moves along the most unrestricted pathway, such as layers of sand, along pipelines, wells, or through underground structures such as a basement. At a concentration of between 5 and 15 percent methane in air, methane becomes an explosive hazard. Five percent or 50,000 parts per million (ppm) is defined as the lower explosive limit (LEL). Methane gas also can cause asphyxiation in a confined space. Sensors to measure methane display the concentration in three ways: percent by volume, parts per million, and percent of the LEL. (A concentration of 100 percent of the LEL is 5 percent by volume.)

The Subject Property methane gas monitoring system includes 12 street probes, located along the streets that abut the Subject Property, 7 gas vents and 10 parking lot gas vents (attached to light poles), 6 wells, and 3 gas probes located on the Town and Country property. Manual gas monitoring of the Kmart basement was discontinued in 1996 in accordance with approval by the Los Angeles City Fire Department (LAFD). An automated gas detection-alarm system operates at the Kmart location and was determined to be adequate for methane gas monitoring. The Whole Foods store reportedly has there own interior gas sensors and alarm system.

Methane gas monitoring has reportedly occurred at the Subject Property, as directed by the LAFD, since 1990. Currently, the Subject Property, in accordance with the LAFD oversight requirements, conducts semi-weekly methane gas monitoring and gas pressure monitoring and reporting. EBI reviewed recent semi-weekly Methane Gas Monitoring Reports prepared for the Subject Property and dated June 2004. Methane gas concentrations ranged from non-detect to 88% of the LEL, less than the LEL and not considered a concern to the public health and welfare at this time. The highest gas concentrations are reported in the eastern portion, exterior parking lot area, of the Subject Property. Gas pressure readings for this period indicated zero gas pressure at all of the pressure monitoring locations.

Two former oil wells, designated #99 and #102, were reportedly abandoned on the Subject Property in the 1930s. A previous ESA report attempted to locate these wells with geophysical techniques and identified a potential subsurface anomaly consistent with the estimated location of the abandoned well #102, located in the northwest perimeter of the Subject Property. The second oil well #99, estimated location in the northeast portion of the Subject Property, was not detected by geophysical methods. A previous ESA report (See Section 4.1, CA- April 1998) concluded that the highest rate of methane gas venting is in the same area as the suspected location of former oil well #99, northeast portion of the Subject Property. It was the opinion of CA Environmental that the methane gas problem in this area is at least partially due to a leaking well and if the well could be located and re-abandoned the methane problem will probably be reduced or eliminated. EBI's discussion with a representative of The Division of Oil and Gas (DOG) stated that a construction site review for the reported abandoned wells by the DOG would be required if the Subject Property proposed further development.

EBI contacted Mr. David Myers of the Los Angeles City Fire Department Environmental Unit, which has local agency oversight of methane compliance. Mr. Myers stated that the current concentrations of methane gas reported in the semi-weekly methane monitoring reports are not a concern to the Fire Department at this time.

EBI spoke with Mr. Ron Lofy, of Lofy Engineering, who conducts the semi-weekly onsite monitoring of methane gas monitoring system at the Subject Property. Mr. Lofy stated that the two gas venting mitigation wells, designated Kerbrat Well #2 and Fukuda Well #3, were installed in 1991/1992 after mud geysers and gas buildup occurred at the Subject Property and local vicinity. The mitigation wells were installed in conjunction with required horizontal vent pipes that are still in operation at the Subject Property. In 1997, the mitigation wells were abandoned at the direction of the property management firm, Investment Development Services. Mr. Lofy stated that this did not violate any local oversight agency requirements and that the Subject Property is currently in compliance with local, state, and federal regulations as long as the twice-weekly monitoring and onsite monitoring alarm systems are maintained.

4.0 SUBJECT PROPERTY AND VICINITY HISTORY

EBI obtained historical information regarding the Subject Property from the sources listed below. From review of the following, it appears that the Subject Property was previously an oil field (early 1900s to 1930), residences in 1939, single story commercial buildings in 1945 to 1960, a car wash in 1951, and the existing shopping center buildings since 1961. The discussion of the reviewed historical resources is provided below.

4.1 PREVIOUS ENVIRONMENTAL REPORTS

Mr. Michael Turner provided EBI with five previous environmental site assessments performed for the Subject Property:

***Revised Updated Preliminary Phase I Environmental Site Assessment and Phase II Subsurface Environmental Site Assessment,* performed by California Environmental (CA) of Westlake Village, California, dated April 1998.** According to the CA report, the Subject Property was previously occupied by a car wash, which was constructed on the Subject Property in 1951. From 1906 to 1931, the Subject Property was used for oil production. The CA report noted two abandoned wells on the Subject Property, which were reportedly abandoned in 1930-1931 and were not abandoned in accordance with current oil well abandonment standards. CA noted a 1931 aerial photograph, which showed aboveground oil storage tanks and sumps on the Subject Property. CA discussed the onsite methane issue and concluded that the onsite methane mitigation measures comply with regulatory requirements and appear to adequately protect against loss of life due to methane fires or explosions.

The CA report documented a Phase II investigation of the Subject Property which included: an attempt to locate the former oil wells, reportedly abandoned in the 1930s, using geophysical methods; to characterize petroleum impacts in subsurface soils; and to determine whether hazardous wastes are present in soil beneath the Subject Property. Six soil borings were advanced to depths of 8 feet to 20 feet, and 18 soil samples were collected and analyzed for total petroleum hydrocarbons (TPH), volatile organic compounds, semi-volatile organic compounds, and metals.

- **FORMER ONSITE OIL WELLS**
  The geophysical survey reportedly detected a subsurface anomaly in the area of suspected well #102, located at the northwest perimeter of the Subject Property. The anomaly was interpreted as either a deeply buried well casing, or metal debris at a shallower depth. No subsurface anomaly was found in the suspected area of the abandoned oil well #99 reportedly located in the northeastern portion of the Subject Property.

- **PETROLEUM IMPACTED SOIL LOCATED BENEATH SUBJECT PROPERTY**
  The CA Phase II report identified crude oil impacted soil in the suspected abandoned oil well locations and in two suspected former oil sump locations. The highest concentrations of contaminants were primarily less than 10 feet below ground surface (bgs). One location was reported to have elevated concentrations of contaminants to more than 20 feet bgs. Low level impacts were found at a depth of 3 feet in the drainage channel locations but did not extend to greater depths. No impacts were found in the suspect aboveground tank location. The highest total petroleum hydrocarbon (TPH) concentration that CA noted was 14,000 parts per million (ppm). Volatile and Semi-volatile compound concentrations in soil were trace to non-detect. Heavy metal concentrations were reported to be consistent with background metal concentrations in soil and not a potential concern. The CA report concluded that hazardous concentrations of

contaminants of concern may be present in the near surface (less that 25 feet bgs) and that crude oil impacted soil may be encountered during future grading activities at the site, if such activities are conducted.

- The CA report stated that based on the current development at the site and the lack of pathways for human exposure to the contaminated soil limited the human health risk. The CA report also stated that based on the hydrogeologic conditions at the Subject Property, the petroleum impacts do not present a significant risk to the groundwater resource beneath the Subject Property. The CA report stated that it was unlikely that the Los Angeles County Regional Water Quality Control Board (LARWQCB) would require the remediation of the impacted soil in the absence of redevelopment of the Subject Property even though the minimum level at which the LARWQCB would set a site specific action level for TPH would be 10,000 ppm (CA report quoting the Interim Site Assessment and Cleanup Guidebook, LARWQCB, May 1996, Table 4-1). The CA report stated that based on recent LARWQCB actions at other oil field properties, onsite refuse of petroleum impacted soil would likely be allowed at high levels. The CA report concluded that no further action was recommended for the petroleum impacts at the time of the report, but noted that if the soil is disturbed in the future, applicable regulations in effect at that time should be consulted to determine whether special handling will be necessary. Based on an estimated impacted soil volume of 6,000 cubic yards (9,000 tons), the 1998 estimate for excavation, loading, transportation, treatment, import, backfill, and compaction of the contaminated soil was $324,000.00.

- The CA report concluded that the highest rate of methane gas venting is in the same area as the suspected location of former oil well #99, northeast portion of the Subject Property. CA stated, "It is the opinion of CA Environmental that the methane gas problem in this area is at least partially due to a leaking well. If the well can be located and re-abandoned the methane problem will probably be reduced or eliminated."

***Updated Preliminary Environmental Site Assessment and Subsurface Investigation,* performed by California Environmental (CA) of Westlake Village, California, dated April 1998.** The revised Phase I, II ESA report recommended that an asbestos survey be conducted and an Operations and Maintenance Plan be instituted to manage the onsite asbestos containing material. The CA revised ESA report conclusions stated that a methane monitoring and maintenance plan should be developed and that the estimated cost of annual testing is $25,000.00.

***Pre-Renovation Asbestos Inspection* performed by Camco Group (Camco) of Fonata, California, dated August 17, 2001.** The Camco report addressed the area of the single story grocery store (now Whole Foods) and sampled for asbestos containing materials. The report identified ACM in the form of Flex Joint in the rear stock room attic, pipe insulation near the HVAC unit in the attic, floor tile (12" red brick pattern) on the sales floor, and associated floor tile mastic. It should be noted that this report only addresses the Whole Foods tenant space.

***Abatement Report for Whole Foods Space,* performed by PDG Environmental (PDG) of Fullerton, California, dated September 15, 2001.** . The previous report supplied by the ARBA Group titled PDG Environmental Close-Out for Whole Foods Space documented abatement during September 2001. The report documented the removal of floor tile, flex joint, and pipe insulation. It was unclear whether the floor tile mastic was removed. It should be noted that this report only addresses the Whole Foods tenant space.

***Weekly Methane Monitoring Reports,* performed by Lofy Engineering (Lofy) of Pasadena, California, dated July 3, 2004**. The Los Angeles City Fire Department requires the routine semi-weekly methane gas monitoring of the Subject Property and submittal of a Methane Gas Monitoring report. EBI reviewed monitoring reports for 2004. The monitoring reports summarize probe testing of detectable levels of methane in 11 out of 12 probes at the Subject Property. Monitoring of exterior gas vent locations were performed. The weekly monitoring reports note the gas detection alarm systems in place at the Subject Property. The reports note the almost continuous pumping of an offsite well (Anthony #2) between Ogden Drive and the Ross Dress for Less. The report noted a new concrete subterranean clarifier next to Anthony well #2. The discharge water from Kerbrat well #2 and Fekuda Well #3 (on the Subject Property) have been redirected to a new 5,000 gallon tank located in the immediate vicinity of the Kerbrat well #2. During its existence, the 5,000 gallon tank at the Subject Property had been drained to the storm sewer a total of seven times prior to the tank being removed in 1997.

The monitoring report stated that in 1997, the onsite vent wells (kerbrat #2 and Fukuda #3) were abandoned at the direction of the property management firm. The wells had been a pathway for venting the methane gas in the area and reducing ambient pressure in the soil. These wells had served as key gas relief wells, which had prevented any gas build up in the Kmart basement since their activation in 1992. Reportedly, the operation was too expensive for the Subject Property management firm.

Relevant information from the previous reports is discussed in the appropriate sections of this *Report*. Portions of the previous reports are included as an Appendix to this *Report*.

4.2 FIRE INSURANCE MAPS

EBI reviewed Sanborn fire insurance maps as provided by the Los Angeles Public Library. Map sets dated 1888, 1894, 1900, and 1906 updated 1950 were reviewed. The review revealed the following:

- The 1888 map set did not encompass the Subject Property area.
- The 1894 – 1900 map set did not encompass the Subject Property area.
- In the 1906 updated 1950 map set, the Subject Property appears to by located in either Volume 8 or Volume 24. Neither volume was accessible on August 10, 2004.

The previous CA report reference Sanborn Fire Insurance Maps dated 1950 and 1969. The Previous report stated that following:

- The 1950 map depicts the Subject Property as occupied by the Town and Country Market with numerous shops and small restaurants. The service yard is occupied with an incinerator, three storage buildings, and a greenhouse is present along the southern property line. No underground tanks of hazardous waste generating activities were indicated on the Subject Property. Hancock Park School is adjacent to the south, with the large Park LaBrea residential development beyond. The area across Ogden Drive to the east is vacant. The map does not show the properties across Fairfax to the west or Third Street to the north
- The 1969 map depicts the Subject Property as occupied by the existing shopping center and bank buildings. No underground tanks or hazardous waste generating activities are indicated on the property. Hancock Park School is adjacent to the south, with the large Park La Brea residential development beyond. The area across Ogden Drive to the east is occupied by the Park La Brea

shopping center. The map does not show the properties across Fairfax to the west or Third Street to the north.

4.3 HISTORIC AERIAL PHOTOGRAPHS

EBI reviewed historical aerial photographs dated 1928, 1947, 1952, 1965, 1976, 1989, 1994, and 2002 as provided by EDR, Inc. The historical aerial photograph review revealed the following:

- The 1928 photo depicts the Subject Property as an oil production field. Large above ground storage tanks, apparently used to store crude oil, are located on the Subject Property. Dirt road accesses are located throughout the Subject Property. Residential areas are located to the west and northwest of the Subject Property. The areas to the south and east of the Subject Property are also a part of the large oil production field. The area to the north of the Subject Property across Third Street is apparently vacant land with intermittent uses including oil production. The larger surrounding area is moderately densely developed with residential areas.

- The 1947 photo depicts the Subject Property with several single story commercial buildings. The remaining portion of the Subject Property is utilized for parking, apparently unpaved. The Subject Property is bound to the west by Fairfax and then by sparse commercial buildings, to the north by Third and then by Farmers Market, to the east by undeveloped land (Ogden has not yet been constructed) and the south by a two-story school building and unpaved land. Further south is the La Brea Park Development.

- The 1952 photo depicts the Subject Property with the same single story commercial buildings as in 1947. The remaining portion of the Subject Property is utilized for parking, apparently unpaved. The Subject Property is bound to the west by Fairfax and then by commercial buildings, to the north by Third and then by Farmers Market, to the east by Ogden and undeveloped land, and the south by a two-story school building and unpaved land. Further south is the La Brea Park Development.

- The 1965 photo depicts the Subject Property as occupied by a shopping complex along the southern portion. The northwest corner of the Subject Property is occupied by a commercial building. The remaining portion of the Subject Property is covered with a parking lot. The Subject Property is bounded to the south by a school and parking lot, to the west by Fairfax and then by commercial properties, to the north by Third Street and then by Farmer's Market, to the east by Ogden and then by another commercial complex.

- The 1976 photo depicts the Subject Property and adjacent properties as in 1965.

- The 1989 photo depicts the Subject Property and adjacent properties as in 1965 and 1976. The surrounding area has been highly developed and is now a high-density urban area.

- The 1994 photo depicts the Subject Property and adjacent properties similar to those depicted in 1965, 1976, and 1989. No major changes were noted from 1989 to 1994.

- The 2002 photo depicts the Subject Property and adjacent properties similar to those depicted in 1965, 1976, 1989, 1994 and as the Subject Property appears today. The apartment buildings to the far east of the Subject Property have been constructed. The school to the south of the Subject Property has added more buildings.

The previous CA report reviewed historical aerial photographs as provided by Spence Aerial Photograph dated 1931, 1939, 1945, 1950, 1955, 1960, 1962, 1964, and 1969. The CA review revealed the following:

- The 1931 photo depicts the Subject Property as occupied by an oil field including three large aboveground storage tanks, an oil well derrick, and approximately 12 buildings. Six or seven shallow impoundments or sumps are present, four of which appear to contain oil. A drainage course leading from impoundments across Third Street to the northeast crosses the southeast corner of the property. Oil wells are present to the north, east, and south. A residential neighborhood is located to the west and northwest. A possible gas station is located on the southwest corner of Third and Fairfax. A real estate office is located in the northwest corner of 4th and Fairfax.

- The 1939 photo depicts the Subject Property as occupied by two single story dwellings and trees along the south-central portion of the Subject Property. The remaining portion of the Subject Property is undeveloped land. Billboards are located along the northwest corner and western portion of the Subject Property. No oil wells were noted on the Subject Property. The Subject Property is bordered on the south by a school; to the east by undeveloped land, to the north by Third Street and the farmers market, and to the west by Fairfax and then by sparse commercial buildings. There are service stations located on the southwest and northwest corners of Fairfax and Third.

- The 1945 photo depicts the Subject Property with the central portion occupied by several single story commercial buildings. The remaining portion of the Subject Property is utilized for parking, apparently unpaved. There are service stations located on the northwest and southwest corners of Fairfax and Third. The Subject Property is bound to the west by Fairfax and then by sparse commercial buildings, to the north by Third and then by Farmers Market, to the east by undeveloped land (Ogden has not yet been constructed) and the south by a two-story school building and unpaved land.

- The 1950 photo depicts the Subject Property with the same several single story commercial buildings as noted in 1945. The remaining portion of the Subject Property is utilized for parking, apparently unpaved. There is a service station located on the northwest corner of Fairfax and Third. There may be a service station located on the southwest corner of Third and Fairfax. The property is bounded on the north by Third and then by Farmer's Market, to the east by Ogden and then by a storage yard for lumber and possible sand, to the south by a school and single-story dwellings/school rooms, and to the west by Fairfax and then by commercial buildings.

- The 1955 photo depicts the Subject Property as occupied by a cluster of commercial buildings. There is a service station located along the northeast corner of the Subject Property. A single-story commercial structure is located along the eastern portion of the Subject Property. There appears to be a small single-story structure located along the west-central portion of the Subject Property. The Subject Property is bounded to the north by Third and then by Farmers Market, to the east by Ogden and then by a commercial shopping center, to the south by a school and playing field and to the east by Fairfax and then by commercial structures.

- The 1960 photo depicts the Subject Property as occupied by a cluster of commercial buildings in the central portion of the Subject Property. There are service stations located along the northeast and northwest corners of the Subject Property. A single story commercial structure (possible drive in restaurant) was located along the eastern property line. There appears to be an overhang along the eastern portion of this building. The property is bounded to the north by Third and then

by Farmers Market, to the east by Ogden and then by a commercial complex, to the south by a school and parking lot and to the west by Fairfax and then by commercial buildings.

- The 1962 photo depicts the Subject Property as occupied by a commercial building along the northwest corner of the Subject Property. The western portion of the shopping center has been constructed. The eastern portion of the site is under construction. A subsurface excavation for a basement is being constructed. The northern most and western portions of the site not occupied by buildings are covered with a paved parking lot. There are several service station located on the northwest and southwest corners of Fairfax and Third Streets. The Subject Property is bound to the south by a school and parking lot, to the west by Fairfax and then by commercial structures, to the north by Third and then Farmers Market, and to the east by Ogden and then by a commercial shopping center.

- The 1964 photo depicts the Subject Property as occupied by a commercial complex and a single commercial building along the northwest corner of the Subject Property. The remaining portion of the Subject Property is occupied by a parking lot. There are service stations located on the northwest and southwest corners of the Fairfax and Third. The Subject Property is bound to the south by an alley and then by a school along the southwestern portion and a parking lot along the remaining southern portion, to the east by Ogden and then by another commercial complex, to the north by Third Street and then a group of commercial buildings, and to the west by Fairfax and then by commercial property.

- The 1969 photo depicts the Subject Property as occupied by a shopping complex along the southern portion. The northwest corner of the Subject Property is occupied by a commercial building. The remaining portion of the Subject Property is covered with a parking lot. There are service stations on the northwest and southwest corners of Fairfax and Third Streets. The Subject Property is bounded to the south by a school and parking lot, to the west by Fairfax and then by commercial properties, to the north by Third Street and then by Farmer's Market, to the east by Ogden and then by another commercial complex.

4.4 CITY DIRECTORIES

City directories were reviewed at Sherman Library in Corona Del Mar, California. The city directory review revealed the following:

- The 1902 directory listed 3rd Street West up to 1422 where Witmer intersects but did not include the Subject Property.
- The 1910, 1920, 1925, 1931, and 1942 directories did not have reverse listings.
- The 1955 directory lists 6306 as Town and Country Market Auto Wash and West 3rd and Fairfax with many listings for Farmer's Market.
- The 1960 directory did not list the Subject Property, but had many listings for the adjacent Farmer's Market.
- The 1965 directory listed the Subject Property as 6310 Britt Department Store and many other retail and restaurant addresses.
- The 1970 and 1975 directories list the Subject Property with various retail and restaurant addresses.
- The 1980 directory lists the Subject Property as Kmart, Savon, and various retail stores.
- The 1985 directory lists the Subject Property as Kmart, Fox 50 minute color prints, and various retail stores.

- The 1987 and 1989 directories list the Subject Property as various retail stores.

4.5 INTERVIEWS

The following information was provided by individuals contacted by EBI in connection with the Subject Property.

INTERVIEW COMMENTS		
CONTACT	**RELATION TO SUBJECT PROPERTY**	**DETAILS OF CONVERSATION**
Mr. Mark Gemache	Associate Oil and Gas Engineer, Division of Oil and Gas	Ms. Gemache explained to EBI that the local oil wells have previously acted as a release valve for the local underground methane build up. The methane is a naturally occurring by-product of the oil-producing zone below the surface. When the oil wells were abandoned, the methane's only route of evacuation from the underground soil is to permeate through the soil. When leached in this fashion, methane can accumulate in underground spaces and basements.

4.6 PROPERTY TAX RECORDS

Property tax information was obtained from the Los Angeles County Tax Assessor's Office. The property owner is 3rd Fairfax LLC. According to the Subject Property the previous owner was the University of Southern California until 1998.

5.0 REGULATORY INFORMATION

5.1 PROCEDURE

A review of databases maintained by state and federal offices was completed through Environmental FirstSearch. The databases were searched for properties with reported environmental issues within radii specified by ASTM Standard E 1527-00, by using geocoding information that identified the coordinates of the properties in the databases or by checking the street addresses of practically reviewable non-geocoded "orphan" properties within the same zip code. The database report is included as an appendix to this *Report*.

The database report identified 917 "orphan sites." Orphan sites are those facilities, which could not be automatically mapped or geocoded due to inadequate location information. EBI did not identify listed orphan sites within the specified radii.

It should be noted that plotted locations of listed properties are not always accurate. With regard to listings that are determined or suspected to be inaccurate, based on information from other sources such as direct observation or consultation with individuals familiar with the property, EBI uses the best available data when evaluating the location of listed properties discussed below.

5.2 FEDERAL OFFICE RECORDS

NATIONAL PRIORITY LIST (NPL) FACILITIES
The NPL Report, also known as the Superfund List, is an EPA listing of the nation's worst uncontrolled or abandoned hazardous waste facilities. Listing as a Superfund Site is primarily based on a score that the facility receives from the EPA's Hazard Ranking System. These facilities are targeted for possible long-term remedial action under the Superfund Act. The NPL indicated that no NPL facilities are located within one mile of the Subject Property.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY INFORMATION SYSTEM (CERCLIS) AND CERCLIS - NO FURTHER REMEDIAL ACTION PLANNED (CERCLIS-NFRAP) FACILITIES
CERCLIS is a compilation of the facilities EPA has investigated or is currently investigating for a release or threatened release of hazardous substances. The updated EPA Superfund Program CERCLIS List indicates that no CERCLIS facilities are located within a one-half mile radius of the Subject Property. No CERCLIS-NFRAP facilities were identified on or adjacent to the Subject Property.

CORRECTIVE ACTION TRACKING SYSTEM (CORRACTS)
CORRACTS is a list of facilities that are found to have had hazardous waste releases and require Resource Conservation and Recovery Act (RCRA) corrective action activity, which can range from site investigations to remediation. According to the CORRACTS list, no CORRACTS facilities are located within a one-mile radius of the Subject Property.

RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM (RCRIS)
The RCRIS report of hazardous waste generators and treatment, storage, and disposal (TSD) facilities contains information pertaining to facilities that are required to register their hazardous waste activity under RCRA). According to the RCRIS list, no RCRA TSD facilities are located within one-half mile of the Subject Property.

RCRA hazardous waste generators are identified as Large Quantity Generators (LQGs), Small Quantity Generators (SQGs), or Conditionally Exempt Small Quantity Generators (CESQG). RCRA LQGs are identified as those facilities, which generate at least 1,000 kilograms (2,200 pounds) of non-acutely hazardous waste (or 1 kilogram of acutely hazardous waste) monthly. RCRA SQGs are identified as those facilities that generate less than 1,000 kilograms of non-acutely hazardous waste monthly. According to the RCRIS list, no RCRA facilities were identified on or adjacent to the Subject Property. According to the RCRIS list, the Subject Property was not identified as a RCRA generator; however, three adjoining properties were identified as RCRA facilities. The following table presents the listed facilities:

RCRA GENERATOR FACILITIES			
NAME / ADDRESS	**GENERATOR TYPE**	**DISTANCE / DIRECTION / GRADIENT**	**STATUS**
Kings Cleaners 349 S Fairfax	SQG	Adjacent to the west, crossgradient.	No reported violations in connection with this listing.
LA USD Hancock Park Elementary 408South Fairfax Ave.	SQG	Adjacent to the south downgradient.	No reported violations in connection with this listing.

None of the RCRA generator listings identified in the databases is suspected to have an adverse environmental impact on the Subject Property based on the absence of reported RCRA violations and no reported release incidents.

EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS)
The ERNS is a national database used to collect information on reported releases of petroleum products or hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the U.S. Coast Guard, the National Response Center and the U.S. Department of Transportation. A review of this database was made in order to determine if any spills or incidents involving releases of petroleum products or hazardous substances have occurred at the Subject Property. According to this updated ERNS database, the Subject Property is not on file as being a release site.

5.3 STATE OFFICE RECORDS

LEAKING UNDERGROUND STORAGE TANKS (LUSTS)
According to the state LUST site list, nine LUST sites are located within a one-half mile radius of the Subject Property. Of the listed sites, 6 are located more than ¼-mile from the Subject Property, and based on the urban setting these are not suspected to represent an environmental concern to the Subject Property. Two of the remaining sites within ¼-mile of the Subject Property are listed as case closed, and on this basis are not suspected to represent an environmental concern to the Subject Property. The following table lists the one active LUST sites within ¼ mile:

LEAKING UNDERGROUND STORAGE TANK FACILITIES			
NAME / ADDRESS	**DISTANCE / DIRECTION / GRADIENT**	**REPORT DATE / SUBSTANCE / MEDIA AFFECTED**	**STATUS**
Mas Auto Service 371 Fairfax	Adjacent to the west/crossgradient.	1991 / Gasoline / Other	Remediation Plan

The Mas Auto Service LUST facility is also listed as an underground storage tank facility. The LUST listings identified in the database is not suspected to have an adverse environmental impact on the Subject

Property based on the crossgradient relationship to the Subject Property, the regulatory status, and the presence of an apparent responsible party.

STATE REGISTERED UNDERGROUND STORAGE TANKS (USTS)
According to the state UST database, no UST's are located on the Subject Property. However, one other UST facility is located adjacent to the Subject Property. The following table presents the listed facility:

UNDERGROUND STORAGE TANK FACILITIES		
NAME / ADDRESS	**DISTANCE / DIRECTION / GRADIENT**	**NUMBER / TYPE / CONTENTS OF TANK**
Los Angeles Unified School District 408 Fairfax	Adjacent / South / Downgradient	No details were available.

None of the UST listings identified in the databases is suspected to have an adverse environmental impact on the Subject Property based on the absence of reported releases and the apparent presence of an off-site responsible party in the event a release is discovered.

STATE SITES
According to the State database listing, the adjacent Elementary School is listed as having methane monitoring for methane issues at the property.

SOLID WASTE LANDFILLS
According to the State Active List of Solid Waste Landfill facilities, no reported landfills are located within one-half mile of the Subject Property.

5.4 LOCAL OFFICE RECORDS

Local offices consulted during the preparation of this *Report* included the Los Angeles Building, Planning, Engineering, County Public Works Department, County Health Department, Fire Department, and Regional Water Quality Control Board (LA-RWQCB). No documented adverse environmental conditions or complaints were reported at the Subject Property and readily on file at the Building, Planning, Engineering, County Public Works, or RWQCB offices.

- EBI contacted Mr. David Myers of the Los Angeles City Fire Department Environmental Unit, which has local agency oversight of the methane monitoring and compliance performed at the Subject Property. Mr. Myers stated that the Subject Property appears to be compliant with the current semi-weekly monitoring and reporting requirements and that the current concentrations of methane gas reported in the semi-weekly methane monitoring reports are not a concern to the Fire Department at this time.

- EBI submitted a FOIA requests to the Los Angeles County Health Department for information regarding storage tanks, chemical spills, and other potential environmental concerns in connection with the Subject Property. As of the date of this *Report* EBI has not received a response to this inquiry. Upon receipt of the agency response, if the provided information has a material affect on the findings of this *Report*, EBI will forward the new information, together with revised findings, as an addendum to this *Report*. If no response is received or no material violations are noted, our *Report* will not be modified.

5.5 OTHER RECORDS

The previous CA environmental report (Section 4.1) noted that one above ground storage tank was formerly used to store groundwater, but had been removed prior to the CA site visit. Based on the lack of noted violations, hazardous materials, and the AST reportedly holding groundwater, this former AST is not suspected to pose an adverse environmental impact to the Subject Property.

6.0 FINDINGS AND OPINIONS

EBI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the Subject Property. Any exceptions to, or deletions from, this practice are described in *Section 1.0* of this *Report.* This assessment has revealed no evidence of recognized environmental conditions in connection with the Subject Property except for the following:

The Subject Property is located in the Salt Lake Oil Field. The Subject Property and surrounding area were used for oil production from the 1900's to the 1930's. In the 1930's the local oil derricks and wells were abandoned to make way for urban construction. Two oil wells were reportedly abandoned on the Subject Property in the 1930s. Elevated methane gas concentrations were identified on the Subject Property and adjacent properties in the mid-1980s, which resulted in methane monitoring and mitigation requirements. A methane gas pressure and gas concentration monitoring system was implemented on the Subject Property. Monitoring data for the Subject Property from June of 2004 indicate no detectable gas pressure and methane concentrations are less than the regulatory action level, the lower explosive limit (LEL). A previous ESA report for the Subject Property suggests a potential source for the detectable concentrations of methane to be methane migration through the previously abandoned oil well reportedly located in the northeastern portion of the Subject Property. Based on the information and documentation available to EBI for preparation of this *Report,* the methane gas monitoring program appears to be proceeding in accordance with regulatory requirements. Therefore, no further action is recommended at this time with regards to methane gas concentrations, methane gas pressure, or the previously abandoned oil wells.

A previous limited subsurface soil investigation report indicated elevated concentrations of total petroleum hydrocarbons (TPH) in soil. No further action was recommended at that time. However, the report concluded that hazardous concentrations of contaminants of concern may be present in the near surface (less that 25 feet bgs) and that crude oil impacted soil may be encountered during future grading activities at the site, if such activities are conducted. Refer to Section 7.0 of this *Report* for recommendations.

- *Although EBI recommends no further actions at this time, EBI is of the opinion that the potential exists for significant Subject Property ownership liability for costs associated with any future requirement for further actions related to the following environmental concerns: re-abandonment of the two former oil wells reportedly abandoned on the Subject Property in the 1930s; subsurface assessment and remediation of potentially contaminated surface and subsurface soils; and further actions required to address any future elevated methane gas pressure and/or methane gas concentrations.*

The following non-ASTM conditions were also evaluated:

ACM identified in previous asbestos survey reports reportedly include structural steel fireproofing, pipe insulation, asbestos-cement pipes, flooring materials, and roofing materials. Asbestos abatement reportedly occurred at the Whole Foods tenant space during September 2001 and included the removal of ACM in the form of floor tile, flex joint, and pipe insulation. It was unclear whether the floor tile mastic was removed.

- EBI observed friable suspect ACM in the form of trowelled-on stucco and plaster in the basement of Savon, drywall throughout the Subject Property, textured ceiling surfacing, ceiling tile, and spray on fireproofing. In addition, non-friable suspect ACM was observed in the form of terrazzo, vinyl floor tile, roofing materials, and construction mastics at the Subject Property. Where observed, the suspect

ACM is intact and in good condition except damaged drywall in the Kmart and damaged stucco/plaster in the Savon.

- As directed by the scope of work for this ESA, EBI collected 20 representative samples of suspect ACM in the form of troweled-on stucco/plaster and drywall. Due to the inaccessible ceiling height, poor condition, and high friability and potential for ACM fiber release and human exposure potential; EBI did not collect samples of the fireproofing in the Kmart. The suspect ACM samples collected by EBI were submitted to Environmental Hazards Laboratory in Richmond, VA to be tested for the presence of asbestos by polarized light microscopy (PLM). The results of the laboratory analysis for asbestos of suspect ACM collected by EBI is pending at this time.

A previous ESA report noted that suspect PCB containing light ballast may be present at the Subject Property.

7.0 RECOMMENDATIONS

The following additional actions are recommended:

- Based upon the presence of asbestos containing materials (ACM), EBI recommends development and implementation of an asbestos Operations and Maintenance (O&M) Plan for the Subject Property. This O&M Plan provides the procedures and guidelines that, when used during facility cleaning, maintenance, and general operations, will minimize human exposure to asbestos fibers and minimize release of asbestos fibers to the environment. This O&M Plan is a long-term management approach. Estimated cost: $500

- EBI recommends that soil sampling and laboratory analysis be conducted for contaminants of concern should surface or subsurface soils be exposed during any future soil excavation activities.

- EBI recommends improved housekeeping of photochemical and waste chemical storage and placement of secondary containment beneath all photochemicals and photochemical waste in order to mitigate a release of chemicals to the flooring.

- Unlabeled fluorescent lights should be assumed to contain PCB's. Unlabeled ballasts and used lamp tubes should be handled and disposed of in accordance with local, state, and federal regulations.

8.0 REFERENCES

8.1 REFERENCES CONTACTED

A number of sources were contacted during the preparation of this *Report*. The following individuals were interviewed, and state, county or local municipal departments consulted. Documentation applicable to the Subject Property in those departments was requested and reviewed when and where reasonably ascertainable, as detailed in ASTM E-1527-00. Individuals listed without phone numbers were contacted in person or by e-mail.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT REFERENCES

RESOURCE	ADDRESS	CONTACT	INFORMATION PROVIDED	PHONE OR WEB	DATE
Los Angeles, California Building Inspection Office	Building Records Section 201 N. Figueroa Street 1st Floor, Room 110 Los Angeles, CA 90012		Code compliance & violations, Certificates of Occupancy	www.lacity.org	08/05/06
The Arba Group, Owner Representative	6380 Wilshire Blvd. Los Angeles, California	Mr. Michael S. Turner, Director of Development	Subject Property information, previous reports, questionnaire, etc.	323-651-1808	07/27/04
Los Angeles County Environmental Health Hazardous Materials	5555 Firguson Commerce, California 90022	FOIA Request	Hazardous Materials	323-728-0217	08/03/04
Los Angeles County Public Library			Sanborn Map Sets	www.lapl.org	08/03/04
Los Angeles County California Tax Assessors Office	500 West Temple Street Room 225 Los Angeles, California 90012		Subject Property historical information.	www.lacountyassessor.com 888-807-2111	08/03/04
Los Angeles County Public Works	900 S Fremont Street Alhambra, California	Ms. Kim Taylor	Present and Historical UST information	626-458-5100	08/03/04
Los Angeles Regional Water Quality Control Board	320 W. 4th Street #200 Los Angeles, California 90013	Mr. Cesai Campos	SLIC and UST units for information on contamination and drycleaner closure.	(213) 576-6600	08/04/04
Los Angeles Department of Water and Power (DWP)	111 N. Hope Street Los Angeles, California 90012		Water Quality and source information, transformer information.	213-367-0329	08/10/04

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT REFERENCES					
RESOURCE	**ADDRESS**	**CONTACT**	**INFORMATION PROVIDED**	**PHONE OR WEB**	**DATE**
Los Angeles City Fire Department Environmental Unit	200 North Main Street #1700 Los Angeles, California 90012	Inspector Houston	Methane compliance and monitoring.	213-978-3710	08/10/04
Lofy Engineering	PO Box 5335 Pasadena, California 91117	Mr. Ronald Lofy	Methane compliance and monitoring.	626-351-2266	08/10/04
Division of Oil and Gas	5816 Corporate Ave #200 Cypress, California 90630	Mr. Mark Gemache	Former oil well locations	714-816-6847	08/12/04

APPENDIX A

PHOTOGRAPHS



1. Subject Property Building viewed from Ogden Street.



2. Subject Property Quad area.



3. Subject Property Interior of K Mart.



4. Subject Property City Bank Interior.



5. Kmart Baler.



6. Kmart used battery storage.



7. Kmart compactor.



8. Kmart photo processing.



9. Kmart photo processing.



10. Kmart fireproofing.



11. Shared oil grease waste container.



12. SavOn Baler.



13. Savon Photo processing waste.



14. Savon Photo processing.



15. Savon photo processing chemical storage.



16. Methane detector inside the Whole Foods Store.



17. Methane detection system inside the Whole Foods Store.



18. Northern view from the Subject Property.



19. Northeastern view from the Subject Property.



20. Eastern view from the Subject Property.



21. Rear of the Subject Property.



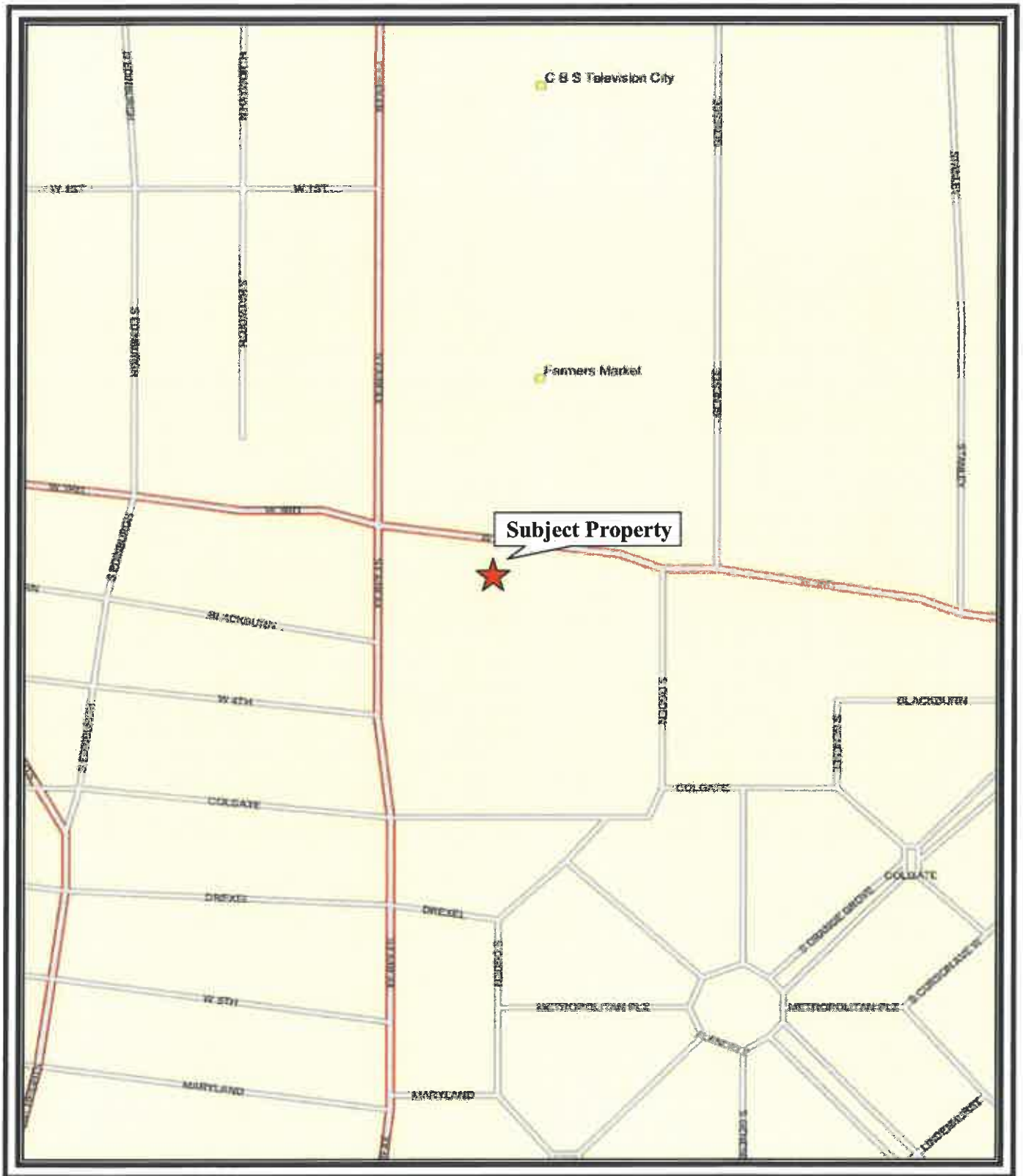
22. Southwestern view from the Subject Property.



23. Western view from the Subject Property.

APPENDIX B

FIGURES, DRAWINGS AND MAPS

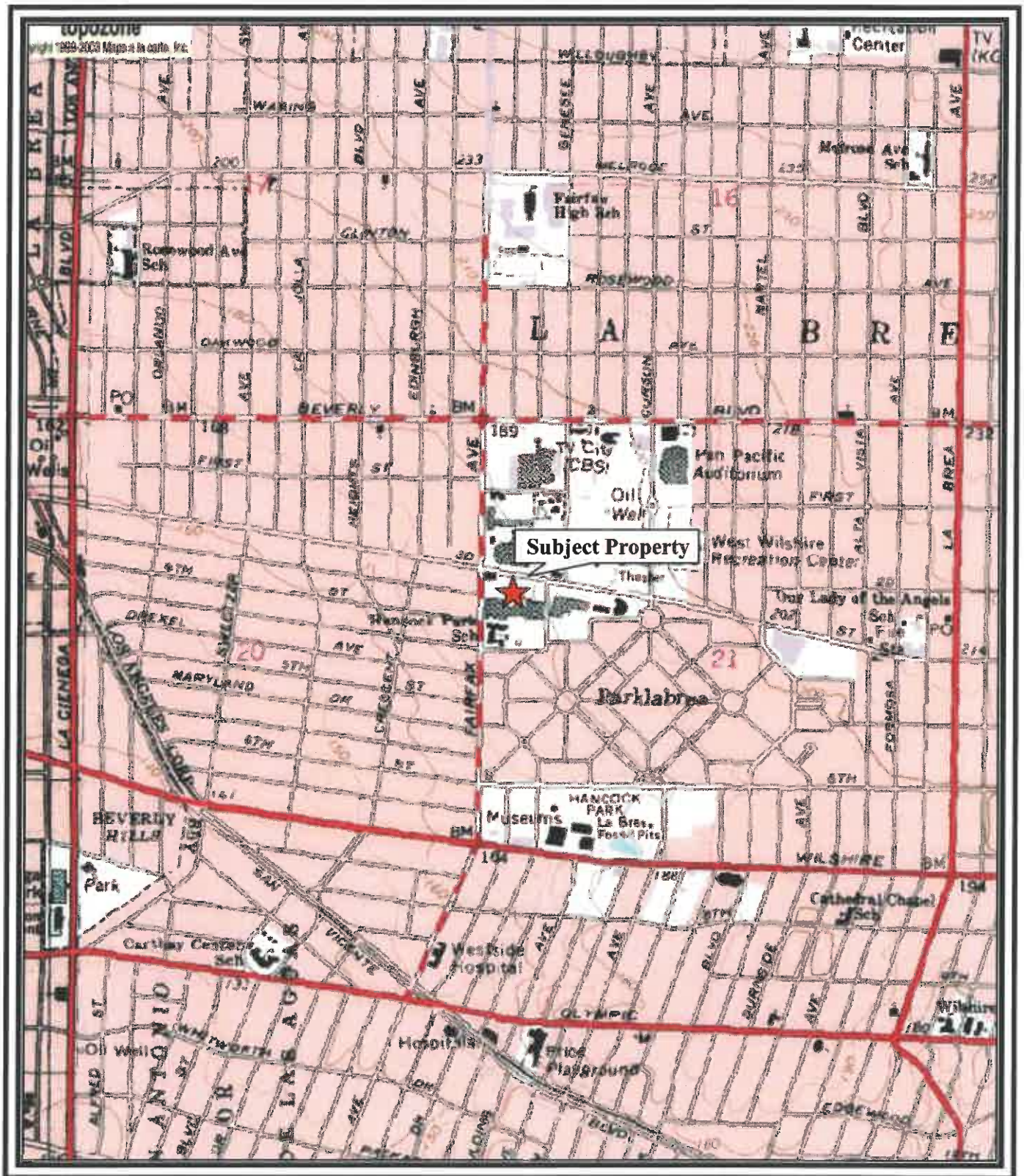


EBI CONSULTING

Figure 1: Location Map

TOWN & COUNTRY RETAIL
6310-6360 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

N



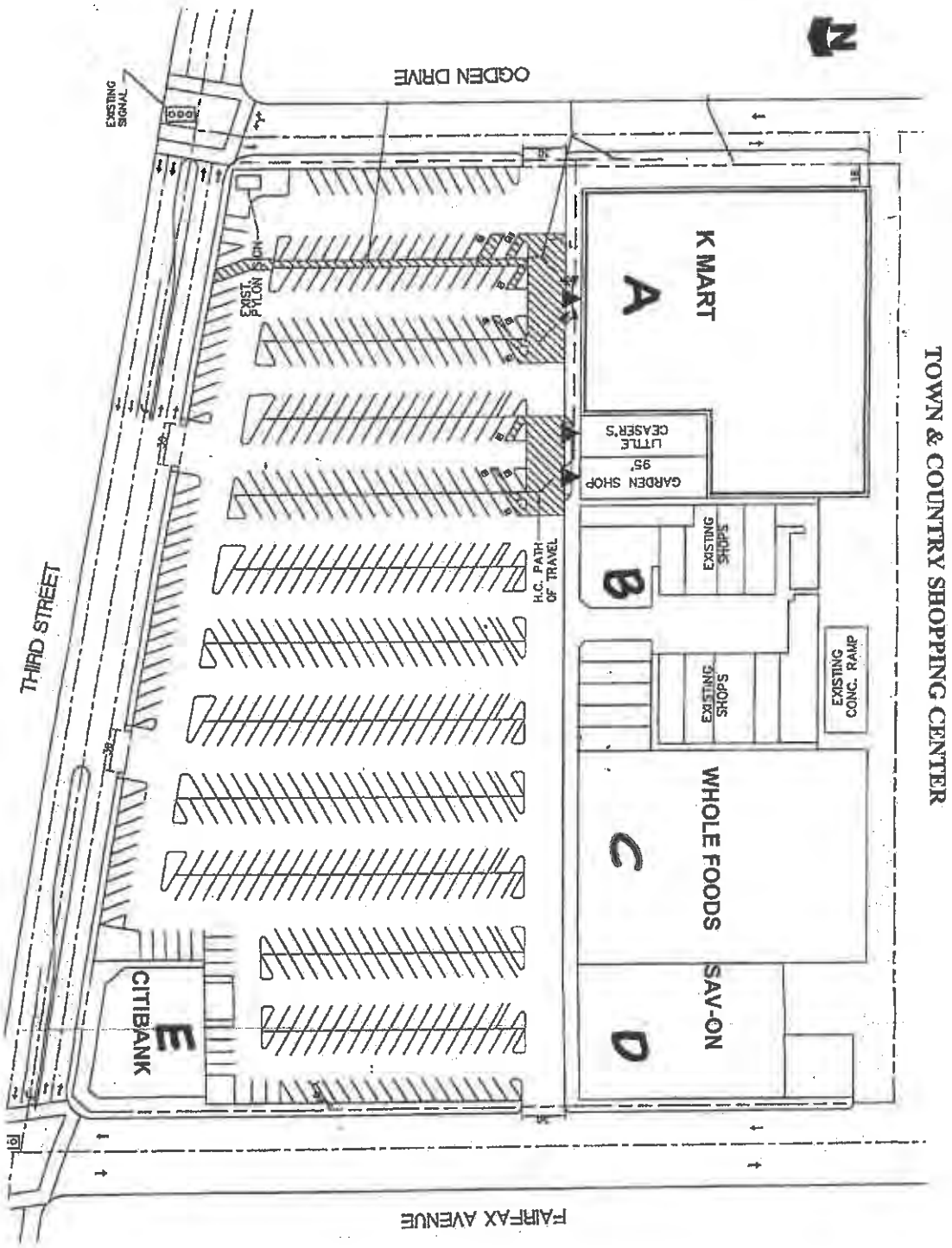
EBI CONSULTING

A portion of year, city, state
USGS 7.5x15 Minute Quadrangle

N

TOWN & COUNTRY RETAIL
6310-6360 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

Figure 2: Locus Map



EBI CONSULTING

Figure 3: Site Plan

TOWN & COUNTRY RETAIL
6310-6360 WEST THIRD STREET
LOS ANGELES, CALIFORNIA

N

APPENDIX C

OTHER RELEVANT DOCUMENTS

Flood Insights test results for :

Latitude: 34.070923 Longitude: -118.360218
Geocoding Accuracy: Not Available

Flood Zone Determinations

Test Description

SFHA (Flood Zone) Within 250 feet of multiple flood zones?
Out No

Community	Community Name	Zone	Panel	Panel Date
060137	LOS ANGELES, CITY OF	X	0063D	July 06, 1998

FIPS Code	Census Tract
06037	2145.00

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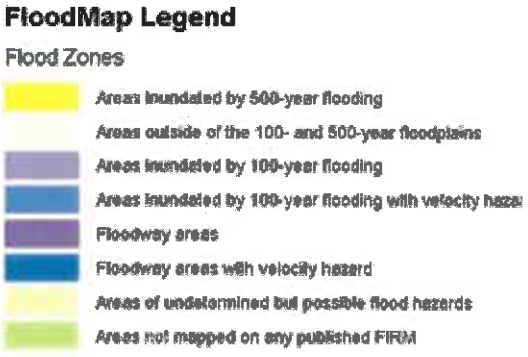

powered by
RiskMeter.com
617 737 4444
www.cdys.com

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TOWN & COUNTRY
SHOPPING CENTER

TENANT	UNIT	SQUARE FEET
Osco Drug, Inc. (Sav-On)	6360	23,040
Whole Foods	6350	29,928
Whole Foods	Patio	-
Anna's Linens	6340	7,033
K-Mart Corporation	6310-6320	138,147
Citibank	300 Fairfax	11,249
Payless Shoesource	6324	3,804
Thai Patio	6332	2,207
Andre's of Town & Country	6332-17,18,19A	4,315
Fortune Plate	6332-19	1,770
Fresh Start	370 S. Fairfax	1,908
Saka's Outlet	6328	934
Fashion Studio	6322-6330	2,170
Tong Shin-Newsstand	6334	612
Vista Optical	6336	600
Wigs Today	6338	675
A-1 Keys	-	-
United Mobile Phone	6330 1/2	72

LOS ANGELES CITY FIRE DEPARTMENT

FIRE PROTECTION EQUIPMENT PERFORMANCE CERTIFICATE

THIS PAGE BY ITSELF IS NOT A COMPLETE DOCUMENT

DATE(S) OF TESTING	TEST SITE ADDRESS: (street)	(CITY)	(STATE)	(ZIP)	FIRM or O.S.A.:
11/15/01	6301-6360 W. 3rd St.	Los Angeles	Ca.	90046	Arba Group

EQUIPMENT TESTED AND DESCRIPTION:

Automatic Fire Sprinkler System

NOTEWORTHY CHARACTERISTICS, SYSTEM DESCRIPTION, PROCEDURES PERFORMED, AND DEFECTS FOUND IN EQUIPMENT TESTED (IF NONE, SO NOTE).

Local Alarm (ITV) Bell Test - FAIL - (see defects)
Backflush of the fire dept. connection performed.
Spare sprinkler heads and wrench present - SEE DEFECTS
DEFECTS:

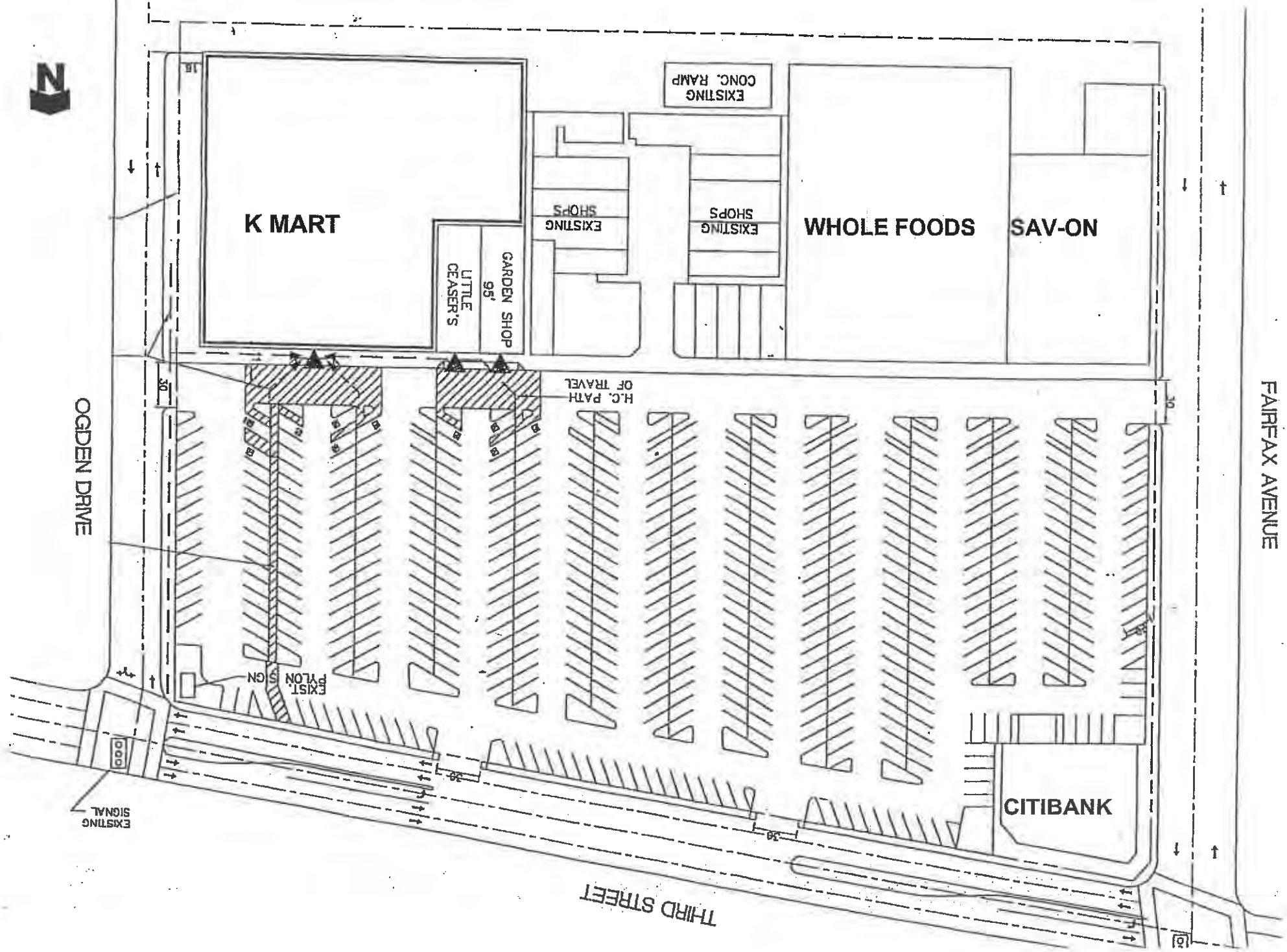
1) Sav-on Drug Store - 6360
   a) Spare sprinkler head box is missing the following components: one 165F pendant head, two 165F uprights, two 280F uprights, and two 360F pendants.
   b) OS&Y control valve is missing break lock and chain and a sign indicating are controlled (6360 entire only.)
   c) Doors leading to the control valve (located in the basement) are missing directional signs indicating the location to the sprinkler riser.
   d) Main floor area is missing 3 escutcheon skirts on sprinkler heads.
   e) Fire dept connection is missing sign "Feeds 6302-6360 3rd St."
2) Vacant Store (under remodeling) - 6350
   a) The underground sectional control valve (located outside the southeast entrance) is unidentified. Recommend sign to be placed on the building showing location (sectional control valve with arrow pointing downward.
   b) Electronic water flow device and tamper switch currently not tied to a central station monitoring panel (wires cut and previous panel removed.)
   c) Main control valve is missing a sign identifying area controlled (6350 only.)
   d) Control valve is missing a break lock and chain.
   e) Due to tenant space of approx. 30,000 square feet in size (which is currently under remodel) numerous drops (200) with ceiling removed are below and will obstruct upright sprinkler heads from operating properly.

   NOTE: Riser control valve was found two thirds closed during testing. Valve must remain open at all times.
3) 16 Tenant Spaces - 6340-6332
   a) Missing sprinkler riser inside signs showing direction to the riser (loading dock access areas above door.)
   b) Main riser control valve is currently unsupervised. Requires electronic tamper device and break lock and chain.
   c) Missing a main control valve sign with area of control information (6340-6332 (16).)
   d) Spare sprinkler heads are missing near the riser: three 165F F/L type uprights, three 165F F/L pendants, and three 165F bulb type white frame.
   e) System side 300 PSI gauge is defective and gives incorrect readings.
4) Tenant Spaces - 6332-6310
   a) Riser control valve is missing area of control information sign (6332-6310.)
   b) Spare sprinkler head box is missing the following items: three 165F bulb white frame pendants, three 165F bulb chrome uprights, and three 165F F/L uprights.
   c) City feed side gauge is defective and requires replacement (gives improper reading.)
   d) Inside 6310 address five escutcheon skirts are missing.
5) K-Mart - 6302
   a) Riser control valve are missing signs indicating area of control (basement level and ground level) to be mounted on wall below each control valve.
   b) Riser room is extremely packed with storage which prohibits access to control valves (minimum of three feet wide path of clearance required.)

TESTERS NAME & CERTIFICATE #	EXPIRATION DATE	TESTER'S SIGNATURE	TESTING AGENCY
Robert J. Brown R4007	5/2003		All Systems Fire Protection

ADDRESS OF TESTING AGENCY: 22157 Clarendon St. Woodland Hills, Ca. 91367

TOWN & COUNTRY SHOPPING CENTER



Third Fairfax LLC
Capital Expenditures
December 1998 - June 2004

Date	Vendor	Explanation	Amount
12/22/1998	Comm. Paving and Coating	Paving	**$8,201.00**
03/08//99	SPS Inc.	Paving	**$14,700.00**
12/31/1999	Somerset Builders	Contrete sidewalk	**$8,400.00**
07/07/2000	Schaefer	Paving	**$2,340.00**
12/31/2001	SPS	Earhtquake Retrofit	**$168,502.00**
04/24/2002	Metal Fencing	Fencing	**$13,635.00**
06/17/2002	IMAC	New Drive Approach	**$5,300.00**
08/08/2004	Apex Painting	Paint Center	**$55,130.00**
12/09/2004	Sign Exchange	Signs for Center	**$6,410.00**
			$282,618.00

EBI CONSULTING

PHOENIX, ARIZONA OFFICE
500 E. THOMAS, SUITE 307, PHOENIX, AZ 85012
TEL. 602-279-7480 FAX 208-955-2873
wysasi@ebiconsulting.com

FACSIMILE TRANSMITTAL SHEET

To:	From:	Date:
Mr. Scott Krieger	**EBI Consultants – Phoenix, AZ Office** **Wendy Ysasi, Administrative Assistant**	**July 28, 2004**
Fax number or email address: **scott@thearbagroup.com**	Total number of pages including cover: **4**	

☐ **Please Complete** ☐ **Urgent** ☐ **Please Reply**

Re: Property Condition Report & Environmental Site Assessment Questionnaire for property known as or located at:

Town & Country Retail; 6310-6310 West Third Street, Los Angeles, CA

We have been requested by:	EBI Project #:	Subject:
Aetna	**24-1775**	**To complete an Engineering and Environmental survey of the above mentioned property.**

1. **Please assemble this original questionnaire and one copy of property plans and documents, and forward all information to the site or the site contact for the Engineer to use during the site visit. This documentation will be included in our reports.**
2. **Provide a second copy of property plans and documents to: EBI Consultants, 4A Street, Burlington, MA 01803, attention Production Department, and include the EBI project number shown above.**
3. **Please fill out this questionnaire to the best of your knowledge and FAX BACK TO (208) 955-2873 or EMAIL TO wysasi@ebiconsulting.com within three business days. Please remember to keep a copy of this questionnaire for the EBI Assessor who will be on site to perform the engineering assessment.**
4. **The Engineer and/or Scientist will contact you directly to schedule the site visit.**
5. **This information is extremely time sensitive and necessary to provide your lender with accurate and timely reports.**

EBI CONSULTING

RE: 24-1775 PROPERTY CONDITION REPORT PRE-SURVEY QUESTIONNAIRE

Please fill out and sign this questionnaire to the best of your knowledge for the Engineer or Scientist's site visit.

• Fax a copy to EBI at (208) 955-2873, or email to wysasi@ebiconsulting.com for our report files, and keep the original to provide to the Engineer. • Additional plans and documents (see page 2) must be forwarded to the site for the Engineer or Scientist during the survey.

For questions not applicable to the subject property, please respond "N/A." Attach additional pages if necessary. This document and your responses to it will be included as an exhibit in the reports. Accurate and full completion of this Questionnaire is critical to a timely completion of our reports, and timely closing of your loan.

Subject Property Name: Town & Country Shopping Center

Address: 6300-6370 W. 3rd Street; 300 S. Fairfax Avenue; and 300 S. Ogden Drive

Subject Property Owner: Third Fairfax, LLC **Purchase Date:**

On-Site Property Contact: See Below **Telephone:** (323) 651-1808

Fax: (323) 651-2222 **Email:** Michael@TheArbaGroup.com

Michael S. Turner, Director of Development — 7/30/04

Your Name and title **Signature** **Date**

LOCAL JURISDICTIONAL INFORMATION

1. What is the property ID #, Lot and Block, or Township/Range ID #? See attached legal description
2. What is the legal Municipality or County that has jurisdiction over the property? City of Los Angeles

PROPERTY INFORMATION

3. What is the size of the subject property lot or lots, in acres? ± 7.5 acres
4. How many parking spaces are present at the property? ± 487
5. How many buildings comprise the subject property? Three ?
6. What is the gross and net rentable square footage of the building(s)? 228,390
7. What is the date of construction of the building(s)? When was the building(s) first occupied? ± 1961
8. How many tenants are present? See attached Tenant List
   a. If the property is apartments, please provide a unit and type count by bedroom and square feet. N/A
9. Please list, to the best of your knowledge, any deficiencies or problems with the site, parking area, amenities or utilities. None Known
10. Please list, to the best of your knowledge, any structural, water infiltration, mold, roof, plumbing, HVAC, Fire Alarm or electrical deficiencies or problems. None Known

Does the property have	Y or N	Does the property have	Y or N
Polybutylene piping	?	Compressed wood or composite board siding	?
Galvanized steel water lines	?	EIFS exterior finishes	NO
ABS sanitary lines	?	Fire Retardant Treated plywood	?
Aluminum branch wiring	?	Cadet/Encore electric heaters installed 1982-99	?
Omega (Central or CSC) brand sprinkler heads	?	GE or Hotpoint dishwashers installed 1983-89	?

11. During the last five years, have any major capital improvements been made to the site or building(s)? If so, please explain, with the approximate cost. See attached

12. Please list any deficiencies noted during any Building, Fire or Health Department inspections in the last three years. See attached LA City Fire Sept. Inspection & Follow-up Inspection Clearance.

13. When were the fire alarm systems and/or sprinkler system (if any) last tested? Alarm 6/03: Sprinkler 1/03

14. Please list the following utility providers:

Electricity: LA DWP

Water: LA DWP

Storm Drainage: City of Los Angeles

Sanitary Sewer: City of Los Angeles

Natural Gas or Oil: The Gas Co.

Trash Hauler: Consolidated and, Frequency of Pick-ups: 3 times - weekly

15. If you are performing or planning any repairs or replacement work to the property that will exceed an aggregate cost of $2,000 please explain, with the approximate cost. N/A

16. Please list the responsible party for tenant improvements and maintenance of major systems (if applicable).

Varies by Tenant. All tenants are responsible for their own HVAC. K-MART & Whole Foods are responsible for their own roofs. See leases for details.

17. Please attach a brief history of the property. This information helps us properly assess, evaluate and understand your property, and will assist in the financial analysis. The information should include:

- The date of approvals and construction, the contractor who built the property
- History of major capital improvements, repairs, additions or modifications
- History of fires or violations
- A list of any ongoing maintenance issues
- Tenant history, approximate turnover rate

DOCUMENT AND INFORMATION CHECKLIST

Please provide the following information so the Engineer or Scientist can proceed with the survey of the property. Asterisk (*) items are critical to report completion. The documents will become exhibits in the Consultant's report.

A. Plans	B. Municipal Documents	C. Additional Information
ALTA Survey or Site Plan*	Certificate of Occupancy*	Capital expense report for 1 to 3 years*
Architectural Building Plans*	Building Permit*	Tenant Rent Roll*
Extremely critical for properties in Seismically active zones 3 and 4* *STRUCTURAL PLANS – **Seismic Assessments are required for these properties. Structural drawings must be provided at the time of the site visit. If no drawings are provided, the report will be delayed and the Seismic Assessment may be overly conservative.***	Copy of tax cards	
	Copy of violations	Schedule of Floor Area Measurements - Gross and Rentable Square Feet
	B-1 NYC Projects	History of recent improvements
	*Department of Building Violations *Environmental Control Board Violations *Local Law 11 Facade Reports	Previous Due Diligence or Building Component (i.e., roof) Reports
Reduced scale Site and Building Plans		Copy of most Recent Appraisal

EBI ACCESS REQUIREMENTS

At the time of the site visit the Consultant is required to gain access to <u>all</u> areas of the property. This includes:

- All building roofs, unless pitched asphalt shingles. This may require you to obtain and provide a ladder.
- All building perimeters
- All site amenities
- All building interiors, including common areas, lobbies, garages, community rooms, exercise rooms, pool areas, storage rooms, attics and basements, if applicable, and a representative sampling of offices, retail spaces, manufacturing or assembly areas, or apartments.
- All mechanical, electric, sprinkler, HVAC, utility, service, elevator, storage and equipment rooms

ENVIRONMENTAL SITE ASSESSMENT PRE- SURVEY QUESTIONNAIRE

1. Describe the current uses of the property noting tenant names and oil/chemical usage. Retail Shopping Center – See Tenant List

2. Describe the past uses of the property noting tenant names and oil/chemical usage. Unknown

3. (Y) (N) Has a previous environmental site assessment report been prepared for the property? If yes, for what reason? Can EBI have a copy? Previously submitted

4. (Y) (N) Has a subsurface investigation ever been conducted on the property, including soil sampling, groundwater sampling, or installation of groundwater monitoring wells? If yes, for what reason? What were the results? Can EBI have a copy of the report? Are there any groundwater monitoring wells currently located on the property? Previously Submitted

5. (Y) (N) Has there ever been previous sampling for Asbestos, Lead-Based Paint, Lead in Water, or Radon? If yes, please describe. Previously Submitted

6. (Y) (N) Any known environmental liens, deed restrictions, or use limitations for the Property? If yes, please describe. None Known

7. (Y) (N) Any permitted or regulated activities (Hazardous waste generator, air) on the Property? If yes, please describe. Unknown

8. (Y) (N) Are there any transformers or other electrical equipment, which may contain PCBs? If yes, please describe. Where are they? Who owns the transformer(s)? Who services them? Unknown

9. (Y) (N) Has an industrial or manufacturing operation, gas station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junk yard, landfill or waste, treatment, storage, disposal processing or recycling facility ever been located at **or** adjacent to the property? If yes, please describe. Two current tenants have photo processing; unknown if other listed uses were present.

10. (Y) (N) Are there any discarded drums, barrels or containers, construction debris, damaged or discarded automobile or industrial batteries, or pesticides, paints or other chemicals in individual containers or drums of greater than five gallons or fifty gallons in aggregate located on the property? If yes, please describe. ?

11. (Y) (N) Have there ever been any waste storage or treatment lagoons, pits, ponds, or surface impoundments on the property? If yes, please describe. None Known

12. (Y) (N) Does the property have floor drains not discharging to a sewer? Septic System? If yes, please describe. Unknown

13. (Y) (N) Are there currently aboveground or underground storage tanks at the property? If yes, complete table. Unknown

Type of Tank	Size	Content	Installation Date	Spill/Leak Detection? Y or N
Above or Underground	gal			
Above or Underground	gal			
Above or Underground	gal			
Above or Underground	gal			

14. Additional comments.

LOS ANGELES CITY FIRE DEPARTMENT

FIRE PROTECTION EQUIPMENT PERFORMANCE CERTIFICATE

THIS PAGE BY ITSELF IS NOT A COMPLETE DOCUMENT

DATE(S) OF TESTING	TEST SITE ADDRESS: (STREET)	(CITY)	(STATE)	(ZIP)	FIRM or D.B.A.
11/15/01	6301-6360 W. 3rd St.	Los Angeles	Ca.	90046	Arba Group

EQUIPMENT TESTED AND DESCRIPTION:

Automatic Fire Sprinkler System

NOTEWORTHY CHARACTERISTICS, SYSTEM DESCRIPTION, PROCEDURES PERFORMED, AND DEFECTS FOUND IN EQUIPMENT TESTED (IF NONE, SO NOTE)

c) Spare sprinkler head box is missing the following items: three 165F F/L uprights, six 165F bulb type pendants, three 260 F/L uprights.

NO OTHER DEFECTS WERE FOUND.

TESTERS NAME & CERTIFICATE #	EXPIRATION DATE	TESTER'S SIGNATURE	TESTING AGENCY
Robert J. Brown R4007	5/2003	Robert J. Brown	All Systems Fire Protection

ADDRESS OF TESTING AGENCY:

22157 Clarendon St. Woodland Hills, Ca. 91367

LOS ANGELES CITY FIRE DEPARTMENT

FIRE PROTECTION EQUIPMENT PERFORMANCE CERTIFICATE

REPORT NO. 5

PAGE 1 OF 1

RESPONSIBLE PARTY

Propeck, Mary	Property Supervisor	Third Fairfax LLC
6380 Wilshire Blvd., #1106, Los Angeles, CA 90048		323-651-1808
6302-6360 W. 3rd Street, Los Angeles, cA 90046		323-651-1808

OCCUPANCY TYPE	NUMBER OF STORIES	YEAR BUILT	CONSTRUCTION TYPE	Square Ft.
B-2	1	1970's	III	

INITIAL TEST

TESTING AGENCY:

ADDRESS OF TESTING AGENCY:

EQUIPMENT TESTED AND DESCRIPTION:

		CERTIFIED			CERTIFIED
1	Automatic Sprinkler System	YES ☒ NO ☐	4		YES ☐ NO ☐
2		YES ☐ NO ☐	5		YES ☐ NO ☐
3		YES ☐ NO ☐	6		YES ☐ NO ☐

NOTEWORTHY CHARACTERISTICS/SYSTEM DESCRIPTION, PROCEDURES PERFORMED, AND DEFECTS FOUND IN EQUIPMENT TESTED (IF MORE, SO NOTE):

Single story strip mall with numerous retail outlets.

A.) Fire department connection, riser control valves, sectional control valves and outside local bells identified properly.
B.) Riser locations identified properly.
C.) Spare head kits have proper heads and wrenches.
D.) Food court - guage replaced.
E.) Outside local bells operate properly.

NO OTHER DEFECTS FOUND

☐ ADDITIONAL INFORMATION ON ATTACHED SHEET(S)

I HEREBY CERTIFY THAT THE FIRE PROTECTION EQUIPMENT LISTED ABOVE HAS BEEN FULLY TESTED IN ACCORDANCE WITH CHIEF'S REGULATION NO.4 OF THE LOS ANGELES FIRE CODE AND THAT THE RESULTS ARE ACCURATELY LISTED ABOVE AND THE EQUIPMENT IS FULLY OPERABLE EXCEPT AS NOTED.

TESTER'S NAME & CERTIFICATE #	TESTING COMPANY	TESTER'S SIGNATURE	FIRE DEPARTMENT WITNESS (Signature & Assignment)

REPAIR AND RETEST IF DEFECTS ARE FOUND IN EQUIPMENT TESTED. CORRECTION OF SUCH DEFECTS SHALL COMMENCE IMMEDIATELY AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT IN EVERY CASE WITHIN 30 DAYS OF INITIAL TEST. AT THE COMPLETION OF REPAIR, THE SYSTEM OR DEVICE SHALL BE RETESTED AS NECESSARY TO DETERMINE THAT IT IS FULLY OPERABLE.

RETEST IF NEEDED

DATE OF RETEST:	TESTING AGENCY:	PHONE:
01/02/03	All Systems Fire Protection	(818)340-0600

ADDRESS OF TESTING AGENCY: 22157 Clarendon St. Woodland Hills, CA 91367

EQUIPMENT RETESTED AND DESCRIPTION: Automatic Sprinkler System

I HEREBY CERTIFY THAT ALL NECESSARY MAINTENANCE AND REPAIRS HAVE BEEN MADE TO THE EQUIPMENT LISTED ABOVE IN COMPLIANCE WITH THE LOS ANGELES MUNICIPAL CODE AND THE EQUIPMENT IS FULLY OPERABLE.

TESTER'S NAME & CERTIFICATE #	CERTIFICATION DATE	TESTER'S SIGNATURE	FIRE DEPARTMENT WITNESS (Signature and Assignment)
SCOTT SMITH #R4032	8/05		

ACKNOWLEDGEMENTS

COPY TO BE RETURNED WITHIN 7 DAYS TO:	FIRE DEPARTMENT NOTIFIED (If more than one, attach list)
Captain Peters - F.S. #61 - 213-485-6261	Captain Peters - F.S. #61 - 213-485-6261
(INSPECTOR) (ASSIGNMENT) (PHONE)	(NAME) (ASSIGNMENT) (DATE)

City of Los Angeles

The

Department of Building and Safety

Issues this

CERTIFICATE OF COMPLIANCE WITH THE MINIMUM EARTHQUAKE STANDARDS OF DIVISION 91

Building Address: **6360 W. 3RD STREET**
A.K.A. 350 - 70 S. FAIRFAX AVENUE

This certifies that the Building described below has been found on this date to be in substantial compliance with division 91 provisions of Article 1, Chapter IX of the Los Angeles Municipal code for existing building with the rating classification of GROUP - II

Description of building:

One story, Type III, 100' x 150' Concrete Tilt-up building.

PERMIT: # 00016-10000-06253 **VALUATION: $ 26,910.00**

The issuance of this certificate shall not be construed by any person to be a representation, guarantee, warranty of the premises for any purpose including but not limited to fitness, suitability, or freedom from defects, either latent or patent. Not is the issuance of this certificate to be of any immunity provided to public enmities and public employees under state law, including but not limited to those immunities provided by Division 3.6 of Title 1 of the California Government Code. Ordinance No. 145,306.

Owner: **3RD FAIRFAX LLC.**
6380 WILSHIRE BOULEVARD
LOS ANGELES, CA 90048

May 04. 2001
Date

John Kelly
Building Inspector

The

Department of Building and Safety

Issues this

CERTIFICATE OF COMPLIANCE WITH THE MINIMUM EARTHQUAKE STANDARDS OF DIVISION 91

Building Address: 370 S. FAIRFAX AVE

This certifies that the Building described below has been found on this date to be in substantial compliance with Division 91 provisions of Article 1, of Chapter IX of the Los Angeles Municipal code for existing buildings with the rating classification of : GROUP-II

Description of building:
One story, Type III-N, 40' X 48' Concrete Tilt-up building.
PERMIT: #97016-20000-29369 VALUATION: $2,880.00

The issuance of this certificate shall not be construed by any person to be a representation, guarantee, warranty of the premises for any purpose including but not limited to fitness, suitability, or freedom from defects, either latent or patent. Nor is the issuance of this certificate to be of any immunity provided to public enmities and public employees under state law, including but not limited to those immunities provided by Division 3.6 of Title 1 of the California Government Code. Ordinance No. 145,306.

Owner: **THE UNIVERSITY OF SO. CALIFORNIA**
C/O GREGORY J. SWEDWLSON, ESQ.
555 S. FLOWER ST
LOS ANGELES, CA. 90071

JUL 0 6 1999
Date

Pat Mischlish
Pat Mischlish By Bill Foster

Address of Building 6332 W. 3rd Street

0 5 8

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses, Ch. 9, Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Law—for following occupancies:

Issued 6-12-85 Permit No. and Year LA 02299/84

One story, TYpe V, 11'x16', retail flower shop. No parking required. G1 occupancy.

Owner Laurie Kierstein

Owner's Address 6332 W. 3rd Street
Los Angeles, CA

W. McElwaine
BY W. McElwaine/s/

Form 8-29

Address of 11321 Pico Blvd.

0 5 9

Address of Building 6310-70 W. 3rd Street

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.

Issued 12/19/79 Permit No. and Year LA 89175/79

1 story, type IV, 22'6" x 52' space frame canopy, G occupancy.

Owner T. C. Properties 5 2 1 0 0 7 0 0 2 9 5

Owner's Address 370 S. Fairfax Los Angeles, Ca.

Form B-95b

BY T. LUCAS bz

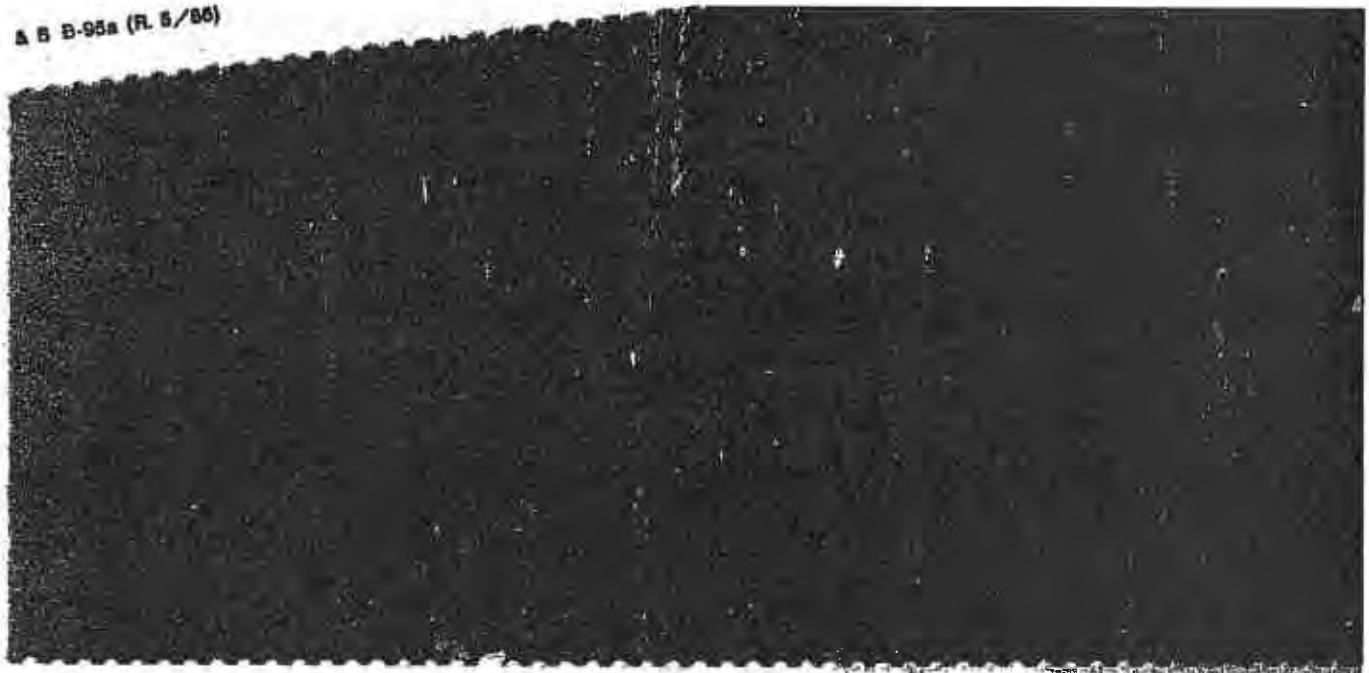
Address of Building 606-08 W. 3rd Street

	Permit No.	Year	Zone	F.D.	No. of Stories	Class	Size	Group	Completed
1	6367	46							
Use 2									
Use 3	8349	51							
Use 4	6478	51							
Use 5	7321	51							
Use 6									
Use 7					12	1	0/	2	1
Use 8									
Use									

CITY OF LOS ANGELES — DEPARTMENT OF BUILDING & SAFETY — PERMIT RECORD
See Reverse Side for Certificate of Compliance Information

Form B-99

L A B B-95a (R. 5/86)



Address of Building 6336-38 W. 3rd St.

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified, as:

Issued 4-28-87 Permit No. and Year LA40395-86

One story, type-V, 30'x45' portion of the Retail Store converted into a yogurt store. No change in parking. AFF ZI 1216, ZI 1195, ZI 1117. B2 occupancy.

* ALSO SUBJECT TO ANY AFFIDAVITS OR BUILDING AND ZONING CODE MODIFICATIONS WHETHER LISTED ABOVE OR NOT.

Owner Seth Jewland 8 0 0 2 1 1

Owner's Address 1727 Nichols Cyn.

L.A., Ca. 90046

R. Lane/bm

L A B B-95a (R. 5/86)



Address of Building 6360 W. 3rd Street

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses; Ch. 9, Arts. 1, 3, and 7; and with applicable requirements of State Housing Law — for following occupancies:

Issued 2-21-85 Permit No. and Year LA 43409/83

One story, Type V, 100x150, Type III building derated to Type V. GI occupancy.

0 6 2 0 2 4 0 0 0 2 3

Owner Sav-On

Owner's Address 1500 S. Anaheim Blvd.
Anaheim, CA 92805

Form 4-68

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

ADDRESS OF BUILDING: 6350 W. 3RD STREET

NOTE: Any change of use of occupancy must be approved by the Department of Building and Safety.

[X] This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of building described below and located at the address complies with the appricable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.* (Non-ResidentialUses)

[ ] This certifies that, so far as ascertained by or make known to the undersigned, the building or portion of building described below and loecated at the above address complieds with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses, Ch. 9, Arts. 1,3,4, and 5; and with applicable requirements of State Housing Law-for following occupancies:* (Residential uses)

Permit NO. and Year: 92LA86774/89VN62032.

ONE STORY, TYPE III-N, 150' X 200', CHANGE OF USE FROM A MARKET TO A MARKET/RETAIL (DELI/BAKESHOP/FISH PREP).

B2 OCCUPANCY.

*ZI 1117, 1195, 1370, 78-037-B.

Total Parking Required: [X] No Change in Parking Requirement.

Total Parking Provided:= Standard: + Compact: + Disabled:

* ALSO SUBJECT TO ANY AFFIDAVITS OR BUILDING AND ZONING CODE MODIFICATIONS WHETHER LISTED ABOVE OR NOT.

Issued By/Office:	Bureau:	Division:
(LA)-VN-WLA-SP-C.D. #:	(BLDG)-BCS:	(GI)-MS-MSS-EQ-BMI-COMM:

OWNER: RALPHS GROCERY CO.

OWNER'S ADDRESS: 1100 W. ARTESIA BLVD. COMPTON, CA. 90220

Issued: 11-22-94

BY: R. SKARIN/H.K./M.K.

Address of Building 6316/6318 W. 3rd St.

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use of occupancy must be approved by the Department of Building and Safety.

☒ This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of building described below and located at the address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.* (Non-Residential Uses)

☐ This certifies that, so far as ascertained by or made known to the undersigned, the building or portion of building described below and located at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses, Ch. 9, Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Law-for following occupancies:* (Residential Uses)

Permit No. and Year 93LA06061

Convert a 29' x 99', portion of the first floor of an existing two story, Type III-N, 29' x 200', retail building to a restaurant.

B2/A3 occupancy. (Maximum occupant load - 96).

*ZI 1195, 1370, 1216, 1440 /AFF. 90-587124/ BF 890516.

Total Parking Required _____ ☒ No Change in Parking requirement

Total Parking Provided _____ Standard _____ • Compact _____ • Disabled _____

* ALSO SUBJECT TO ANY AFFIDAVITS OR BUILDING AND ZONING CODE MODIFICATIONS WHETHER LISTED ABOVE OR NOT.

Issued By / Office: (LA-)N-WLA-SP-C.D #_____ Bureau: (BLDG-) BCS Division (GI-MS-MSS-EQ-BMI-COMM)

Owner K-mart Corporation

Owner's Address 3100 W. Big Beaver Rd. Troy, MI 48084

Issued 6-28-94 By T. Thayne/H.K./vi V.J.

08—B-65A (R.11/89)

Address of Building 6360 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that so far as ascertained by or made known to the undersigned the building at above address complies with the applicable requirements of the Municipal Code as follows: Ch. 1, as to permitted uses; Ch. 9 Arts. 1, 3, 4 and 5 and with applicable requirements of State Housing Act — for following occupancies:

Issued 3-2-62 Permit No and Year LA 88697 - 61

1 story, type IIIB, 100' x 150' drug store. 30 required parking spaces provided. G-1 occupancy.

Owner University of Southern California

Owner's Address University Park
Los Angeles, Calif.

K. W. HULL myb

Form B 955—2M Sept—8-61 Edit

Address of Building 6360 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses. Ch. 9, Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Act—for following occupancies:

Issued 7-1-63 Permit No. and Year LA 36573 - 63

1 story, type III-B, 30' x 30' storage room addition to existing 100' x 150' retail store. M-1 occupancy.

Owner Sav-On Drug Co.

Owner's Address 3535 W. Santa Barbara Los Angeles, Calif.

J. C. MONNING Superintendent of Building—By H. W. [illegible] Insp

[illegible] B-95b—2M Sets—3-62 (C-10)

Address of Building 6017 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses, Ch. 9 Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Act—for following occupancies:

Issued 6-30-65 Permit No. and Year LA 4410/64

1 story, type IV, 10' x 32' carwas.. and polish.
U-1 occupancy

Owner Orcim Enterprises

Owner's Address 10933 West Pico
Los Angeles, Calif

By [illegible]

Form B-956—2M Sht. Sets—12-64 (C-10)

Address of Building: 8015 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch 1 as to permitted uses Ch. 9 Arts 1 3 4, and 5; and with applicable requirements of State Housing Act—for following occupancies:

Issued: 10-23-62 Permit No. and Year: LA 2176 - 62

98' x 265' parking lot. For use of land only.

Owner: University of So. California

Owner's Address: University Park
Los Angeles, Calif.

J. C. MONNING, Superintendent of Building—By K. W. HILL myb

Form B-95b—2M Sets—3-62 (C-10)

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE — Any change of use or occupancy must be approved by the Department of Building and Safety.

Building [illegible] West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE. Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at above address complies with the applicable requirements of the Municipal Code as follows: Sections 3, 4 and 5 and with applicable requirements of Title 19 of the Administrative Code governing occupancy.

Class [illegible] Permit No. and Year [illegible]

[illegible] story, type IIIA, [illegible] apartment house as described in one-hour one-family and two-family flat; [illegible] one-hour [illegible].

[illegible]

Owner [illegible]

Address [illegible]

[illegible] BUILDING Superintendent [illegible]

Address of Building 6332 W. 3rd St.

5 0 0 1 4 7

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 9 as to permitted uses; Ch. 9, Arts. 1, 3, 4, and 5 and with applicable requirements of State Housing Law — for following occupancies:

Issued 11-19-84 Permit No. and Year A 34459/76

One story, TYpe IV, 25x30, Store room addition to the exsting one story, type IIIB, 200x600 commisary building over existing Type I basement without parking change making a total of 200x630 (irr building). B-4/G-2/G-1 occupancy.

Owner T & C Properties

Owner's Address 10889 Wilshire Blvd. Los Angeles, CA 90024

BY W. McClure

Form B-850

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY

CERTIFICATE OF OCCUPANCY

Address of Building 300 S. Fairfax Ave.

Permit No. and Year Yolanda's

Certificate Issued ..... 19.....

NOTE: Any change of use or occupancy Must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at above address complies with the applicable requirements of the Municipal Code, as follows: Ch 1, as to permitted uses; Ch. 9, Arts. 1, 3, 4, and 5; and with applicable requirements of State Housing Act,—for following occupancies:

OCCUPANT LOAD SIGN DELIVERED: 4-20-53
DINING RM.: 100 Persons

Owner

Owner's Address

Form B-95a—10M—12-52 G. E. MORRIS, Superintendent of Building By.....

Address of Building 300 South Fairfax Avenue

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

It certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code as follows: Ch. 1 as to permitted use; Ch. 9, Arts. 1, 3, 4 and 5; and with applicable requirements of State Housing Act — for following occupancies:

Issued 12/29/69 Permit No. and Year LA 44925/67

1 story, type V, 50' x 80' change of occupancy from restaurant G-2 occupancy to office G-1 occupancy.

Owner Aetna Savings & Loan Assoc.

Owner's Address 2137 Bellflower Boulevard
Long Beach, Calif.

Form B-95b—1500 Sheets—3-69 (G-10)

By C. WILSON SB

CITY OF LOS ANGELES

Certificate of Occupancy

Department of Building and Safety

NOTE: Any change of use or occupancy must be approved by

Permit No. and Year LA 13720 - 61

Issued 4-16-62

2 story, type IIIA, 70' x 2[illegible]
at building used as res[illegible] am
one-half as a clothing store;
parking spaces provided.

[illegible] east one-half
and east
14 require.
5=2 occupancy.

[illegible] University of Southern Calif.
University Park
Los Angeles [illegible]

Address 6360 West 3rd Street

Building

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety

Permit No. and Year LA 88697 - 61

Issued 3-2-62

1 story, type IIIB, 100' x 150' drug store. 30 required parking spaces provided. G-1 occupancy.

EXCEPT FOR DEFERRED ITEMS

Owner University of Southern California

Owner's Address University Park
Los Angeles, Calif.

J. W. HUBL

Address of Building 6360 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that so far as ascertained or made known to the undersigned the building at the above address complies with the applicable requirements of the Municipal Code (Ch. 1 as to permitted uses, Ch. 9, Arts. 1, 3, 4, and 5, and with applicable requirements of State Housing Act for following occupancies):

Issued 7-1-63 Permit No. and Year LA 30673 - 63

1 story, type III-B, 30' x 30' storage room addition to existing 100' x 150' retail store. G-1 occupancy.

Owner Sav-On Drug Co.

Owner's Address 3055 W. Santa Barbara Los Angeles, Calif.

By [illegible]

T. G. MONNIG, Superintendent of Building

Form 4-55-2M-5-61 (C-10)

Address of Building 6350 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code (Building Code) as follows: Chapter [illegible] Art. [illegible] and with applicable requirements of the State Housing Act for following occupancy:

Issued 8-28-62 Permit No. and Year LA 88698 - 61

1 story, Type IIIB, 150' x 200' store (Grocery) 60 required parking spaces. G-2 occupancy. SUPERSEDES CERTIFICATE OF OCCUPANCY ISSUED ON 2-8-62.

Owner University of Southern California

Owner's Address University Park Los Angeles, Calif.

Form B-950—2M Sept '62 (C-10) J. C. MANNING Superintendent of Building By O. SIEGEL mvb

Address of Building

6342 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

"NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety"

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1 as to permitted use; Div. 9 Arts 1, 2, 3, 4 and 5; and with applicable requirements of State Housing Act, for following occupancies:

Issued 11-29-63 Permit No. and Year LA 29660 - 63
LA 31390 - 63

1 & 2 story, type I & III-B, 13' x 30' bakery. Change of occupancy from G-1 to G-2 store in existing type I & III-B, 200' x 650' retail store building. G-2 occupancy.

Owner's Name H. N. Rink Assoc.

Owner's Address 356 S. Fairfax Ave. Los Angeles, Calif.

Form D-9c—2M-5-63 (C10) J. C. MONNING, Superintendent of Building—By O. STEGEL mvd

Address of Building 6332 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1 as to permitted use; Ch. 9, Arts. 1, 2, 3, 4, and 5; and with applicable requirements of State Housing Act — for following occupancies:

Issued 11-19-63 Permit No. and Year LA 47378 - 63

1 story, type IV, 5' x 10' shelter and two 5' x 10', two 4' x 8' double-face illuminated signs.

Owner Town & Country Patio Shops

Owner's Address 6332 West 3rd Street, Los Angeles, Calif.

Form 8.3.6—2M Set—4-63 (C-10) J. C. MONNING, Superintendent of Building By K. W. HOLT

Address of Building 6332 West 3rd Street

CITY OF LOS ANGELES
Certificate of Occupancy

X6550+

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code as follows: Ch. 1 as to permitted uses; Ch. 9, Arts. 1, 3, 4 and 5; and with applicable requirements of State Housing Act for following occupancies:

Issued 3/12/64 Permit No. and Year LA-51511/63, 53466/63

25' x 30' bake shop converted from a portion of one-story, Types III-B and I, 200' x 650' commercial building. - No cooking
G-2 Occupancy

See: 6310-42 W. 3rd St.

Owner University of Southern Calif.
c/o Mr. R. H. Stotter

Owner's Address 370 South Fairfax Avenue
Los Angeles California, 90036

C. E. SPITZER

J. C. MANNING, Superintendent of Building — By

Form B-950—2M Sec—3-62 (C-10)

Address of Building 6332 West 3rd Street

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses; Ch. 9, Arts. 1, 3, 4, and 6, and with applicable requirements of State Housing Act—for following occupancies:

Issued 3-14-67 Permit No. and Year LA 38995/67

A 25' x 30' bakery portion of a one-story Type I and III-B 200' x 650' building changed to bakery and cafe. G-1 and G-2 Occupancy

File No. X65504

Owner University of Southern California

Owner's Address 370 South Fairfax Ave. Los Angeles, California

E.E. SPITZER:bj

By

Form B-95b—2M Sheet, Std.—4/60 (G 10)

Address of Building 6330 West 3rd Street

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety

It is certified that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code as follows: Ch. 1 as to permitted use; Ch. 9 Arts. 1, 2, 3, 4 and 5; and with applicable requirements of the State Housing Act for following occupancies:

Issued 6-12-62 Permit No. and Year LA 23351/1962

1 story, type IV, 10' x 111' shelter and four 6' x 9' roof signs and miscellaneous structures. G-1 occupancy.

Owner: Town and Country Patio Shopes

Owner's Address: 6330 West 3rd Street
Los Angeles, California

Form 4B-95b—2M—5-61—4-63 (G-10)

C. A. MONNING, Superintendent of Building By [illegible]

Address of Building 0822 West 3rd St. (Sc. Tr. 2)

CITY OF LOS ANGELES

Certificate of Occupancy

NOTE: Any change of use or occupancy must be approved by the Department of Building and Safety

This certifies that, so far as ascertained by or made known to the undersigned, the building at the above address complies with the applicable requirements of the Municipal Code, as follows: Ch. 1, as to permitted uses; Ch. 9, Arts. 1, 3, 4, and 5, and with applicable requirements of State Housing Act, for following occupancies:

Issued 3-14-63 Permit No. and Year LA 3034-63 LA 2132-63

2 story, type I & III-2, 20' x 110'
cafeteria. Maximum 75 occupants.
E-2 occupancy. Store No. 15

CONDITIONS: #2 of 7

Owner University of So. California
Owner's University Park
Address Los Angeles, Calif.

Form B-95b—2M Set—4-63 (C-10) J. C. MANNING, Superintendent of Building—By C. S. [illegible] Deputy

APPENDIX D

EDR Radius Map Report

Town & Country Retail
6310 W. Third Street
Los Angeles, CA 90036

Inquiry Number: 4930273.2s
May 08, 2017

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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GEOCHECK ADDENDUM

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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

6310 W. THIRD STREET
LOS ANGELES, CA 90036

COORDINATES

Latitude (North):	34.0706990 - 34° 4' 14.51''
Longitude (West):	118.3603240 - 118° 21' 37.16''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	374473.9
UTM Y (Meters):	3770635.2
Elevation:	180 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
West Map:	5630733 BEVERLY HILLS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515, 20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
6310 W. THIRD STREET
LOS ANGELES, CA 90036

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	KMART CORPORATION	6310 W 3RD ST	CA HAZNET		TP
A2	THE KMART CORP	6310 W 3RD ST	CA HAZNET		TP
3	CVS PHARMACY NO 9661	6360 W THIRD ST	RCRA-LQG, FINDS, ECHO	Higher	262, 0.050, NNW
B4	KINGS CLEANERS	349 S FAIRFOX AVE	RCRA-SQG, FINDS, ECHO, CA HAZNET	Lower	350, 0.066, West
B5	FAIR FINE DRYCLEANER	349 S FAIRFAX AVE	CA DRYCLEANERS	Lower	350, 0.066, West
B6		349 S FAIRFAX AVE	EDR Hist Cleaner	Lower	350, 0.066, West
B7	WILLIAM L OLSON INC	301 S FAIRFAX AVE	CA SWEEPS UST, CA FID UST	Lower	354, 0.067, West
C8	HANCOCK PARK ELEMENT	408 SOUTH FAIRFAX AV	CA ENVIROSTOR, CA SCH	Lower	437, 0.083, South
C9	LA USD HANCOCK PARK	408 S FAIRFAX AVE	RCRA-SQG, FINDS, ECHO	Lower	437, 0.083, South
C10	LOS ANGELES UNIFIED	408 S FAIRFAX AVE	CA UST	Lower	437, 0.083, South
D11	MAS AUTO SERVICE	371 FAIRFAX	CA LUST, CA HIST CORTESE	Lower	443, 0.084, WSW
D12		371 S FAIRFAX AVE	EDR Hist Auto	Lower	443, 0.084, WSW
D13	MASAUKI MAS YOSHIOKA	371 S FAIRFAX AVE	CA SWEEPS UST, CA HIST UST, CA FID UST	Lower	443, 0.084, WSW
D14	MAS AUTO SERVICE	371 SOUTH FAIRFAX AV	CA LUST	Lower	470, 0.089, WSW
D15	MAS TEXACO SERVICE	371 S FAIRFAX AVE	CA HIST UST	Lower	470, 0.089, WSW
16	THE GROVE AT FARMERS	6301 003RD	CA SLIC	Higher	515, 0.098, ENE
D17		401 S FAIRFAX AVE	EDR Hist Cleaner	Lower	547, 0.104, SW
18	URICK F A	7051/2 W 3D	EDR Hist Cleaner	Lower	579, 0.110, NW
19	SNYDER A G	419 S FAIRFAX AVE	EDR Hist Auto	Lower	605, 0.115, SW
E20	FARMERS MARKET AUTOM	166 S FAIRFAX	EDR Hist Auto	Higher	623, 0.118, NNW
E21	FARMERS MARKET AUTOM	166 S FAIRFAX AVE	CA HIST UST	Higher	623, 0.118, NNW
E22	FARMERS MARKET AUTOM	166 S FAIRFAX AVE	CA SWEEPS UST, CA HIST UST, CA FID UST	Higher	623, 0.118, NNW
23	THE GROVE AT FARMERS	6301 WEST THIRD ST	CA SLIC	Higher	742, 0.141, NNE
F24	P & K ACCOCIATES	145 SOUTH FAIRFAX AV	CT MANIFEST	Higher	940, 0.178, NNW
F25	FARMERS MARKET CAR W	118 S FAIRFAX AVE	CA LUST	Higher	944, 0.179, NNW
G26	FARMERS MARKET AUTO	166 FAIRFAX AVE S	CA LUST, CA HIST CORTESE	Higher	988, 0.187, NNW
G27	JERALD FRIEDMAN/J KO	145 S FAIRFAX AVE	CA SWEEPS UST, CA FID UST, CA HAZNET	Higher	1070, 0.203, NNW
28	MAC 695441	189 THE GROVE DR SPC	RCRA-SQG, ECHO	Higher	1173, 0.222, ENE
H29	MAJESTIC CAR WASH	8017 003RD ST W	CA LUST, CA HIST CORTESE	Lower	1176, 0.223, WNW
30	PARAMOUNT CLEANERS	487 S FAIRFAX AVE	CA DRYCLEANERS	Lower	1190, 0.225, SSW
H31	MAJESTIC CAR WASH	8017 W THIRD STREET	CA HIST UST	Lower	1286, 0.244, WNW
H32	MAJESTIC CAR WASH	8017 W 3RD ST	CA SWEEPS UST, CA FID UST	Lower	1286, 0.244, WNW
H33	MAJESTIC CAR WASH	8017 W 3RD ST	CA HIST UST	Lower	1286, 0.244, WNW
34	AUTO SERVICE CHUCKS	105 S FAIRFAX AVE	CA SWEEPS UST, CA FID UST	Higher	1310, 0.248, NNW
I35	CBS TELEVISION CITY	7800 BEVERLY	CA LUST, CA HIST CORTESE	Higher	1548, 0.293, North
I36	CBS TELEVISION CITY	7800 BEVERLY BLVD	CA LUST, CA HIST UST, CA CHMIRS, CA EMI	Higher	1548, 0.293, North
J37	WORLD OIL CO	7900 BEVERLY BLVD	RCRA-SQG, CA LUST, CA SWEEPS UST, CA HIST UST, CA...	Higher	1973, 0.374, NNW
J38	APRO STATION #02	7900 BEVERLY BLVD.	CA LUST	Higher	1973, 0.374, NNW
J39	WORLD OIL #64	7900 BEVERLY	CA LUST, CA HIST CORTESE	Higher	1973, 0.374, NNW

MAPPED SITES SUMMARY

Target Property Address:
6310 W. THIRD STREET
LOS ANGELES, CA 90036

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K40	TEXACO	7718 BEVERLY BLVD	CA LUST, CA HIST UST	Higher	2033, 0.385, NNE
K41	TEXACO	7718 BEVERLY	CA LUST, CA HIST CORTESE	Higher	2033, 0.385, NNE
L42	76 PRODUCT STATION N	7751 BEVERLY BOULEVA	CA LUST, CA ENF, CA HIST CORTESE	Higher	2130, 0.403, NNE
L43	TOSCO - 76 STATION #	7751 BEVERLY BLVD	CA LUST	Higher	2130, 0.403, NNE
44	AL-SAL OIL (OLD UNOC	6050 006TH ST W	CA LUST, CA HIST CORTESE	Lower	2198, 0.416, SSW
45	AL SIMON	8023 BEVERLY BLVD	CA SLIC, CA BROWNFIELDS, CA SWEEPS UST, CA FID...	Higher	2426, 0.459, NNW
46	LIZ'S ANTIQUE HARDWA	453 S LA BREA AVENUE	CA ENVIROSTOR, CA EMI	Higher	4106, 0.778, East
47	LA BREA MOTORS	339 SOUTH LA BREA AV	CA ENVIROSTOR, CA VCP, CA HIST CORTESE	Higher	5013, 0.949, East
48	LA BREA AVENUE MOTOR	359 SOUTH LA BREA AV	CA ENVIROSTOR	Higher	5028, 0.952, ESE
49	LA BREA AVENUE MOTOR	401 SOUTH LA BREA AV	CA ENVIROSTOR	Higher	5166, 0.978, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
KMART CORPORATION 6310 W 3RD ST LOS ANGELES, CA 90036	CA HAZNET GEPAID: CAL000018571	N/A
THE KMART CORP 6310 W 3RD ST LOS ANGELES, CA 90063	CA HAZNET GEPAID: CAC002367991	N/A

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-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

Federal ERNS list

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

State- and tribal - equivalent NPL

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

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

CA SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
CA AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

CA AOCONCERN ---------- San Gabriel Valley Areas of Concern

US HIST CDL	Delisted National Clandestine Laboratory Register
CA HIST Cal-Sites	Historical Calsites Database
CA CDL	Clandestine Drug Labs
CA Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Land Records

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

Records of Emergency Release Reports

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

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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
UXO	Unexploded Ordnance Sites

DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---------- Bond Expenditure Plan
CA Cortese ---------- "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings ---------- CUPA Resources List
CA Financial Assurance ---------- Financial Assurance Information Listing
CA ICE ---------- ICE
CA LOS ANGELES CO. HMS ---------- HMS: Street Number List
CA HWP ---------- EnviroStor Permitted Facilities Listing
CA HWT ---------- Registered Hazardous Waste Transporter Database
CA MINES ---------- Mines Site Location Listing
CA MWMP ---------- Medical Waste Management Program Listing
CA NPDES ---------- NPDES Permits Listing
CA PEST LIC ---------- Pesticide Regulation Licenses Listing
CA PROC ---------- Certified Processors Database
CA Notify 65 ---------- Proposition 65 Records
LA Co. Site Mitigation ---------- Site Mitigation List
CA UIC ---------- UIC Listing
CA WASTEWATER PITS ---------- Oil Wastewater Pits Listing
CA WDS ---------- Waste Discharge System
CA WIP ---------- Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
CA 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-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY NO 9661	*6360 W THIRD ST*	*NNW 0 - 1/8 (0.050 mi.)*	*3*	*10*

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 12/12/2016 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAC 695441	*189 THE GROVE DR SPC*	*ENE 1/8 - 1/4 (0.222 mi.)*	*28*	*44*
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
KINGS CLEANERS	*349 S FAIRFOX AVE*	*W 0 - 1/8 (0.066 mi.)*	*B4*	*12*
LA USD HANCOCK PARK	*408 S FAIRFAX AVE*	*S 0 - 1/8 (0.083 mi.)*	*C9*	*20*

State- and tribal - equivalent CERCLIS

CA 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 CA ENVIROSTOR list, as provided by EDR, and dated 10/31/2016 has revealed that there are 5 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LIZ'S ANTIQUE HARDWA	***453 S LA BREA AVENUE***	***E 1/2 - 1 (0.778 mi.)***	***46***	***98***
Facility Id: 60001631				
Status: No Further Action				
LA BREA MOTORS	***339 SOUTH LA BREA AV***	***E 1/2 - 1 (0.949 mi.)***	***47***	***100***
Facility Id: 60001395				
Status: No Further Action				
LA BREA AVENUE MOTOR	359 SOUTH LA BREA AV	ESE 1/2 - 1 (0.952 mi.)	48	103
Facility Id: 60001611				
Status: No Further Action				
LA BREA AVENUE MOTOR	401 SOUTH LA BREA AV	ESE 1/2 - 1 (0.978 mi.)	49	105
Facility Id: 60001610				
Status: No Further Action				

Lower Elevation	Address	Direction / Distance	Map ID	Page
HANCOCK PARK ELEMENT	***408 SOUTH FAIRFAX AV***	***S 0 - 1/8 (0.083 mi.)***	***C8***	***18***
Facility Id: 19000014				
Status: Inactive - Needs Evaluation				

State and tribal leaking storage tank lists

CA 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 CA LUST list, as provided by EDR, has revealed that there are 15 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET CAR W	118 S FAIRFAX AVE	NNW 1/8 - 1/4 (0.179 mi.)	F25	38
Database: LUST, Date of Government Version: 03/13/2017				
Status: Completed - Case Closed				
Global Id: T060377671				
FARMERS MARKET AUTO	***166 FAIRFAX AVE S***	***NNW 1/8 - 1/4 (0.187 mi.)***	***G26***	***39***
Database: LUST REG 4, Date of Government Version: 09/07/2004				
Database: LUST, Date of Government Version: 03/13/2017				
Status: Completed - Case Closed				
Facility Id: 900360207				
Status: Case Closed				
Global Id: T0603700901				
Global ID: T0603700901				
CBS TELEVISION CITY	***7800 BEVERLY***	***N 1/4 - 1/2 (0.293 mi.)***	***I35***	***51***
Database: LUST, Date of Government Version: 03/13/2017				
Status: Completed - Case Closed				
Global Id: T0603700889				
CBS TELEVISION CITY	***7800 BEVERLY BLVD***	***N 1/4 - 1/2 (0.293 mi.)***	***I36***	***53***
Database: LUST REG 4, Date of Government Version: 09/07/2004				
Facility Id: 900360089				

Status: Case Closed
Global ID: T0603700889

WORLD OIL CO ***7900 BEVERLY BLVD*** ***NNW 1/4 - 1/2 (0.374 mi.)*** ***J37*** ***58***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900480070
Status: Case Closed
Global Id: T0603701107
Global ID: T0603701107

APRO STATION #02 7900 BEVERLY BLVD. NNW 1/4 - 1/2 (0.374 mi.) J38 67
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 900480070A
Status: Remedial action (cleanup) Underway
Global ID: T0603788529

WORLD OIL #64 ***7900 BEVERLY*** ***NNW 1/4 - 1/2 (0.374 mi.)*** ***J39*** ***68***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603788529

TEXACO ***7718 BEVERLY BLVD*** ***NNE 1/4 - 1/2 (0.385 mi.)*** ***K40*** ***74***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: I-16219
Status: Remediation Plan
Global ID: T0603704395

TEXACO ***7718 BEVERLY*** ***NNE 1/4 - 1/2 (0.385 mi.)*** ***K41*** ***76***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603704395

76 PRODUCT STATION N ***7751 BEVERLY BOULEVA*** ***NNE 1/4 - 1/2 (0.403 mi.)*** ***L42*** ***83***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603700900

TOSCO - 76 STATION # 7751 BEVERLY BLVD NNE 1/4 - 1/2 (0.403 mi.) L43 92
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 900360198
Status: Remediation Plan
Global ID: T0603700900

Lower Elevation	Address	Direction / Distance	Map ID	Page

MAS AUTO SERVICE ***371 FAIRFAX*** ***WSW 0 - 1/8 (0.084 mi.)*** ***D11*** ***22***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Facility Id: 900360107
Status: Remediation Plan
Global ID: T0603700891

MAS AUTO SERVICE 371 SOUTH FAIRFAX AV WSW 0 - 1/8 (0.089 mi.) D14 25
Database: LUST, Date of Government Version: 03/13/2017
Status: Open - Remediation
Global Id: T0603700891

MAJESTIC CAR WASH ***8017 003RD ST W*** ***WNW 1/8 - 1/4 (0.223 mi.)*** ***H29*** ***45***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017

Status: Completed - Case Closed
Facility Id: 900480089
Status: Case Closed
Global Id: T0603701108
Global ID: T0603701108

AL-SAL OIL (OLD UNOC ***6050 006TH ST W*** ***SSW 1/4 - 1/2 (0.416 mi.)*** ***44*** ***94***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900360125
Status: Case Closed
Global Id: T0603700893
Global ID: T0603700893

CA SLIC: 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.

A review of the CA SLIC list, as provided by EDR, has revealed that there are 3 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE GROVE AT FARMERS	6301 003RD	ENE 0 - 1/8 (0.098 mi.)	16	33
Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Post Remediation Monitoring				
THE GROVE AT FARMERS	6301 WEST THIRD ST	NNE 1/8 - 1/4 (0.141 mi.)	23	36
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Verification Monitoring Global Id: SL2049G1726				
AL SIMON	***8023 BEVERLY BLVD***	***NNW 1/4 - 1/2 (0.459 mi.)***	***45***	***96***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T10000000452				

State and tribal registered storage tank lists

CA 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 CA UST list, as provided by EDR, has revealed that there is 1 CA UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ANGELES UNIFIED	408 S FAIRFAX AVE	S 0 - 1/8 (0.083 mi.)	C10	22
Database: UST, Date of Government Version: 09/12/2016 Facility Id: 24381				

State and tribal Brownfields sites

CA BROWNFIELDS: A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

A review of the CA BROWNFIELDS list, as provided by EDR, and dated 01/03/2017 has revealed that there is 1 CA BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AL SIMON	***8023 BEVERLY BLVD***	***NNW 1/4 - 1/2 (0.459 mi.)***	***45***	***96***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA SCH: 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.

A review of the CA SCH list, as provided by EDR, and dated 10/31/2016 has revealed that there is 1 CA SCH site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HANCOCK PARK ELEMENT Facility Id: 19000014 Status: Inactive - Needs Evaluation	***408 SOUTH FAIRFAX AV***	***S 0 - 1/8 (0.083 mi.)***	***C8***	***18***

Local Lists of Registered Storage Tanks

CA 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 CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 6 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET AUTOM Comp Number: 1767	***166 S FAIRFAX AVE***	***NNW 0 - 1/8 (0.118 mi.)***	***E22***	***35***
JERALD FRIEDMAN/J KO Comp Number: 7981	***145 S FAIRFAX AVE***	***NNW 1/8 - 1/4 (0.203 mi.)***	***G27***	***42***
AUTO SERVICE CHUCKS Comp Number: 4055	***105 S FAIRFAX AVE***	***NNW 1/8 - 1/4 (0.248 mi.)***	***34***	***50***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM L OLSON INC	***301 S FAIRFAX AVE***	***W 0 - 1/8 (0.067 mi.)***	***B7***	***17***

Comp Number: 6996

MASAUKI MAS YOSHIOKA	***371 S FAIRFAX AVE***	***WSW 0 - 1/8 (0.084 mi.)***	***D13***	***23***
Comp Number: 4053				
MAJESTIC CAR WASH	***8017 W 3RD ST***	***WNW 1/8 - 1/4 (0.244 mi.)***	***H32***	***49***
Status: A				
Comp Number: 6041				

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 6 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET AUTOM	166 S FAIRFAX AVE	NNW 0 - 1/8 (0.118 mi.)	E21	34
Facility Id: 00000029388				
FARMERS MARKET AUTOM	***166 S FAIRFAX AVE***	***NNW 0 - 1/8 (0.118 mi.)***	***E22***	***35***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MASAUKI MAS YOSHIOKA	***371 S FAIRFAX AVE***	***WSW 0 - 1/8 (0.084 mi.)***	***D13***	***23***
MAS TEXACO SERVICE	371 S FAIRFAX AVE	WSW 0 - 1/8 (0.089 mi.)	D15	32
Facility Id: 00000067259				
MAJESTIC CAR WASH	8017 W THIRD STREET	WNW 1/8 - 1/4 (0.244 mi.)	H31	48
MAJESTIC CAR WASH	8017 W 3RD ST	WNW 1/8 - 1/4 (0.244 mi.)	H33	50
Facility Id: 00000065816				

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 6 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET AUTOM	***166 S FAIRFAX AVE***	***NNW 0 - 1/8 (0.118 mi.)***	***E22***	***35***
Facility Id: 19017476				
Status: I				
JERALD FRIEDMAN/J KO	***145 S FAIRFAX AVE***	***NNW 1/8 - 1/4 (0.203 mi.)***	***G27***	***42***
Facility Id: 19054692				
Status: I				
AUTO SERVICE CHUCKS	***105 S FAIRFAX AVE***	***NNW 1/8 - 1/4 (0.248 mi.)***	***34***	***50***
Facility Id: 19027094				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM L OLSON INC	***301 S FAIRFAX AVE***	***W 0 - 1/8 (0.067 mi.)***	***B7***	***17***
Facility Id: 19056411				
Status: A				
MASAUKI MAS YOSHIOKA	***371 S FAIRFAX AVE***	***WSW 0 - 1/8 (0.084 mi.)***	***D13***	***23***

Facility Id: 19003243 Status: I				
MAJESTIC CAR WASH Facility Id: 19038137 Status: A	***8017 W 3RD ST***	***WNW 1/8 - 1/4 (0.244 mi.)***	***H32***	***49***

Other Ascertainable Records

CA DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CA DRYCLEANERS list, as provided by EDR, and dated 09/02/2016 has revealed that there are 2 CA DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FAIR FINE DRYCLEANER EPA Id: CAL000320722 EPA Id: CAL000277769	349 S FAIRFAX AVE	W 0 - 1/8 (0.066 mi.)	B5	15
PARAMOUNT CLEANERS EPA Id: CAL000264885	487 S FAIRFAX AVE	SSW 1/8 - 1/4 (0.225 mi.)	30	48

CA 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 CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET AUTO Reg Id: 900360207	***166 FAIRFAX AVE S***	***NNW 1/8 - 1/4 (0.187 mi.)***	***G26***	***39***
CBS TELEVISION CITY Reg Id: 900360089	***7800 BEVERLY***	***N 1/4 - 1/2 (0.293 mi.)***	***I35***	***51***
WORLD OIL #64 Reg Id: 900480070	***7900 BEVERLY***	***NNW 1/4 - 1/2 (0.374 mi.)***	***J39***	***68***
TEXACO Reg Id: I-16219	***7718 BEVERLY***	***NNE 1/4 - 1/2 (0.385 mi.)***	***K41***	***76***
76 PRODUCT STATION N Reg Id: 900360198	***7751 BEVERLY BOULEVA***	***NNE 1/4 - 1/2 (0.403 mi.)***	***L42***	***83***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MAS AUTO SERVICE Reg Id: 900360107	***371 FAIRFAX***	***WSW 0 - 1/8 (0.084 mi.)***	***D11***	***22***
MAJESTIC CAR WASH	***8017 003RD ST W***	***WNW 1/8 - 1/4 (0.223 mi.)***	***H29***	***45***

Reg Id: 900480089

AL-SAL OIL (OLD UNOC	***6050 006TH ST W***	***SSW 1/4 - 1/2 (0.416 mi.)***	***44***	***94***

Reg Id: 900360125

CT MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the CT MANIFEST list, as provided by EDR, and dated 07/30/2013 has revealed that there is 1 CT MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
P & K ACCOCIATES	145 SOUTH FAIRFAX AV	NNW 1/8 - 1/4 (0.178 mi.)	F24	37

EPA Id: CTP000007200

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 3 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARMERS MARKET AUTOM	166 S FAIRFAX	NNW 0 - 1/8 (0.118 mi.)	E20	34

Database: EDR Hist Auto, Date of Government Version: 02/20/2007

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	371 S FAIRFAX AVE	WSW 0 - 1/8 (0.084 mi.)	D12	23
SNYDER A G	419 S FAIRFAX AVE	SW 0 - 1/8 (0.115 mi.)	19	33

Database: EDR Hist Auto, Date of Government Version: 02/20/2007

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 are 3 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	349 S FAIRFAX AVE	W 0 - 1/8 (0.066 mi.)	B6	17
Not reported	401 S FAIRFAX AVE	SW 0 - 1/8 (0.104 mi.)	D17	33
URICK F A	7051/2 W 3D	NW 0 - 1/8 (0.110 mi.)	18	33

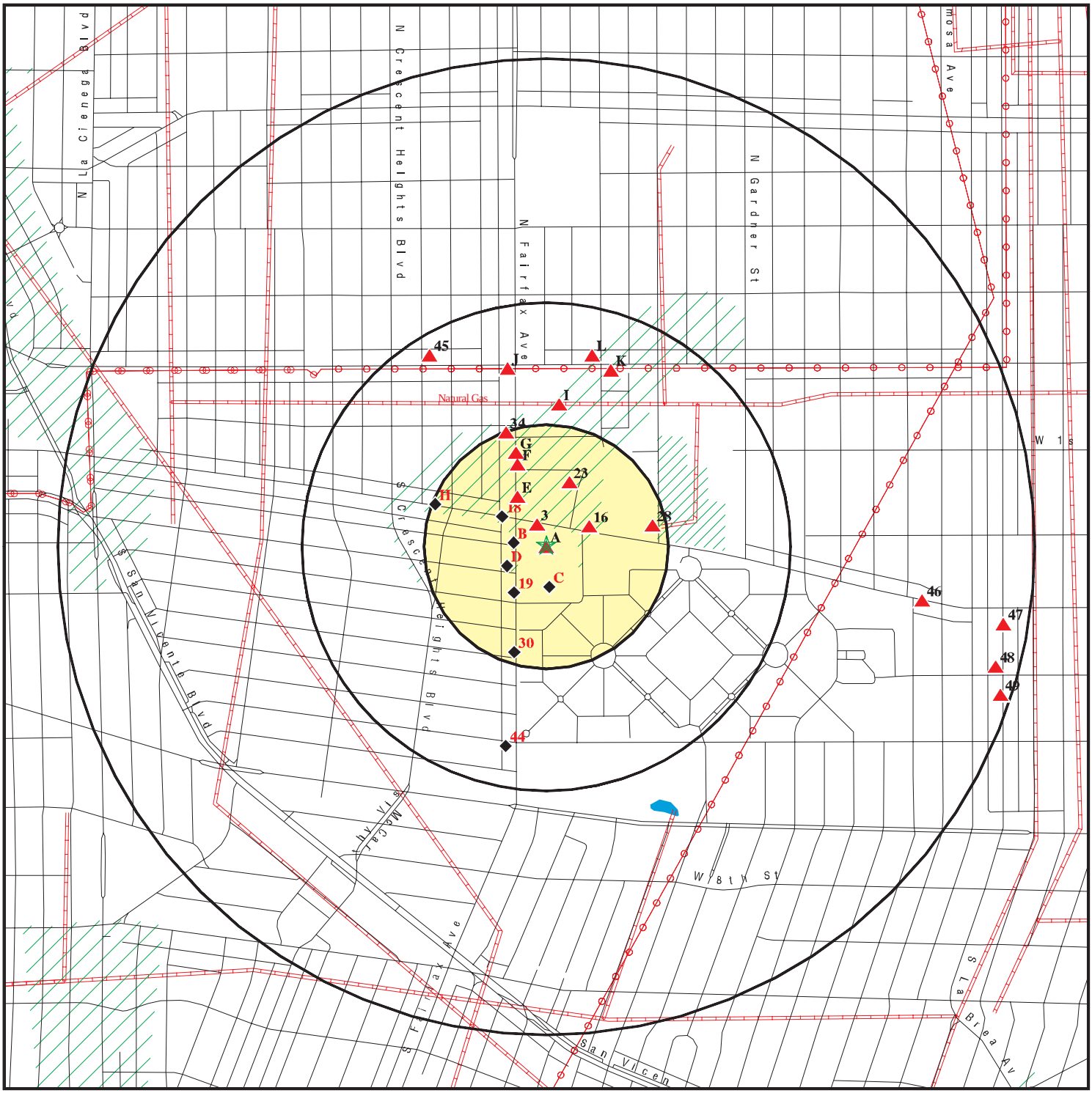
Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
FARMERS MARKET CAR WASH (FORMER)	CA LUST
SALT LAKE PROPERTY	CA ENVIROSTOR

OVERVIEW MAP - 4930273.2S



- 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
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Town & Country Retail	CLIENT: ARCADIS U.S., Inc.
ADDRESS: 6310 W. Third Street Los Angeles CA 90036	CONTACT: Janet Holtz
LAT/LONG: 34.070699 / 118.360324	INQUIRY #: 4930273.2s DATE: May 08, 2017 2:37 pm

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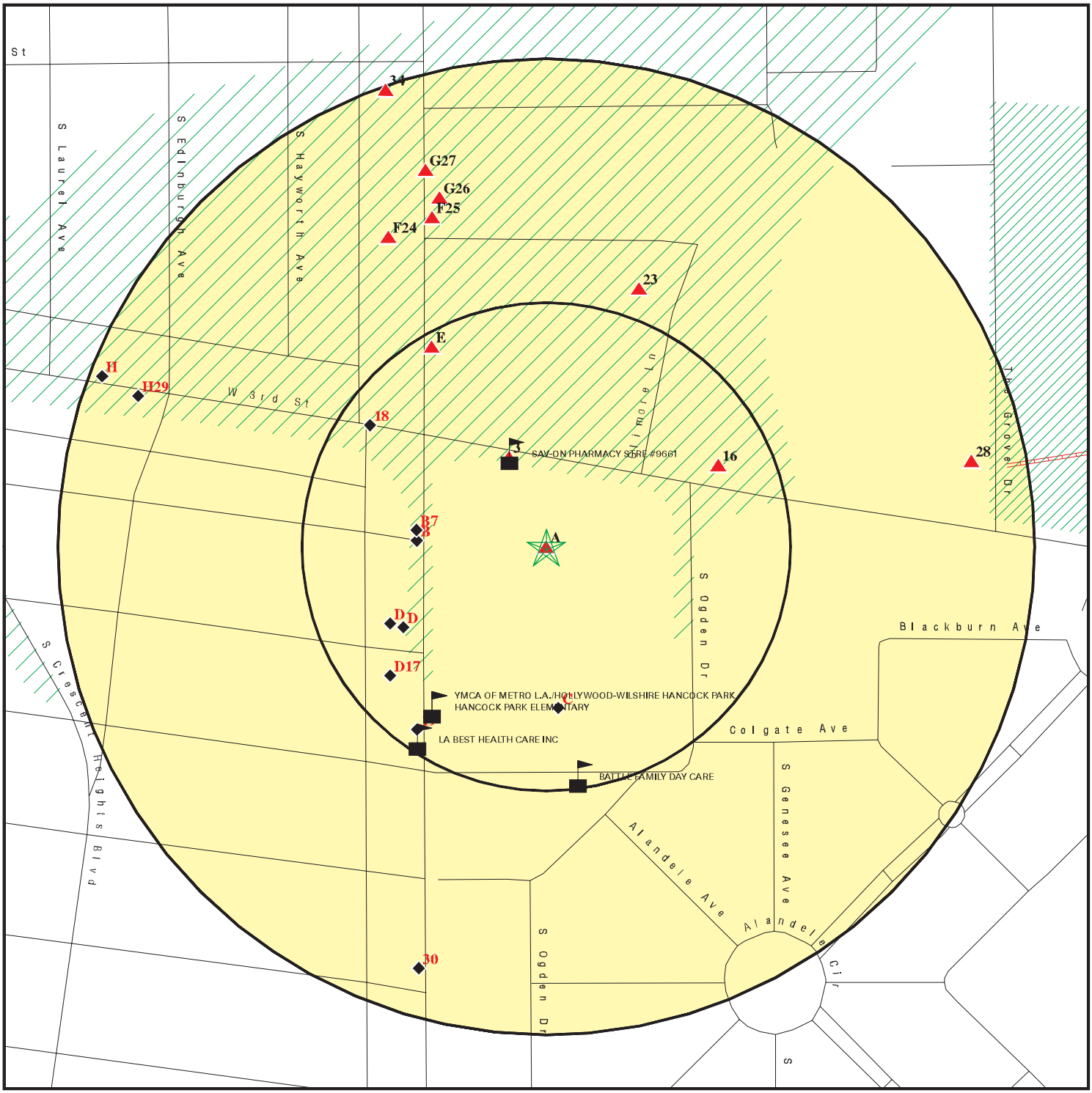
DETAIL MAP - 4930273.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Town & Country Retail	CLIENT: ARCADIS U.S., Inc.
ADDRESS: 6310 W. Third Street Los Angeles CA 90036	CONTACT: Janet Holtz
LAT/LONG: 34.070699 / 118.360324	INQUIRY #: 4930273.2s DATE: May 08, 2017 2:41 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	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
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		1	0	NR	NR	NR	1
RCRA-SQG	0.250		2	1	NR	NR	NR	3
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	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		1	0	0	4	NR	5
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500		2	3	10	NR	NR	15

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
CA SLIC	0.500		1	1	1	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		1	0	NR	NR	NR	1
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
CA AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		1	0	NR	NR	NR	1
CA CDL	TP		NR	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		3	3	NR	NR	NR	6
CA HIST UST	0.250		4	2	NR	NR	NR	6
CA FID UST	0.250		3	3	NR	NR	NR	6
Local Land Records								
CA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CA CHMIRS	TP		NR	NR	NR	NR	NR	0
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
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	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		1	1	NR	NR	NR	2
CA EMI	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA ENF	TP		NR	NR	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA HAZNET	TP	2	NR	NR	NR	NR	NR	2
CA ICE	TP		NR	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		1	2	5	NR	NR	8
CA LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
CA HWP	1.000		0	0	0	0	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
CT MANIFEST	0.250		0	1	NR	NR	NR	1
CA MINES	TP		NR	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA PEST LIC	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
CA UIC	TP		NR	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		3	NR	NR	NR	NR	3
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		2	27	17	17	4	0	67

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

KMART CORPORATION
6310 W 3RD ST
LOS ANGELES, CA 90036

CA HAZNET **S113028126**
N/A

Site 1 of 2 in cluster A

Actual:
180 ft.

HAZNET:

envid:	S113028126
Year:	2015
GEPAID:	CAL000018571
Contact:	CYNTHIA MILLER
Telephone:	8472860037
Mailing Name:	Not reported
Mailing Address:	3333 BEVERLY RD B5-348A
Mailing City,St,Zip:	HOFFMAN ESTATES, IL 601790000
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.4075
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113028126
Year:	2015
GEPAID:	CAL000018571
Contact:	CYNTHIA MILLER
Telephone:	8472860037
Mailing Name:	Not reported
Mailing Address:	3333 BEVERLY RD B5-348A
Mailing City,St,Zip:	HOFFMAN ESTATES, IL 601790000
Gen County:	Los Angeles
TSD EPA ID:	NVD980895338
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.004
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113028126
Year:	2015
GEPAID:	CAL000018571
Contact:	CYNTHIA MILLER
Telephone:	8472860037
Mailing Name:	Not reported
Mailing Address:	3333 BEVERLY RD B5-348A
Mailing City,St,Zip:	HOFFMAN ESTATES, IL 601790000
Gen County:	Los Angeles
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics

KMART CORPORATION (Continued) **S113028126**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.6545
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:	Los Angeles

envid:	S113028126
Year:	2015
GEPAID:	CAL000018571
Contact:	CYNTHIA MILLER
Telephone:	8472860037
Mailing Name:	Not reported
Mailing Address:	3333 BEVERLY RD B5-348A
Mailing City,St,Zip:	HOFFMAN ESTATES, IL 601790000
Gen County:	Los Angeles
TSD EPA ID:	NVD980895338
TSD County:	99
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:	0.0055
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:	Los Angeles

envid:	S113028126
Year:	2015
GEPAID:	CAL000018571
Contact:	CYNTHIA MILLER
Telephone:	8472860037
Mailing Name:	Not reported
Mailing Address:	3333 BEVERLY RD B5-348A
Mailing City,St,Zip:	HOFFMAN ESTATES, IL 601790000
Gen County:	Los Angeles
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:	0.375
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:	Los Angeles

Click this hyperlink while viewing on your computer to access
55 additional CA_HAZNET: record(s) in the EDR Site Report.

A2
Target
Property

THE KMART CORP
6310 W 3RD ST
LOS ANGELES, CA 90063

CA HAZNET **S112916175**
N/A

Site 2 of 2 in cluster A

Actual:
180 ft.

HAZNET:

envid:	S112916175
Year:	2001
GEPAID:	CAC002367991
Contact:	ANNETTE LABOY
Telephone:	6268937081
Mailing Name:	Not reported
Mailing Address:	3100 W BIG BEAVER RD
Mailing City,St,Zip:	TROY, MI 480840000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	0.62
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

3
NNW
< 1/8
0.050 mi.
262 ft.

CVS PHARMACY NO 9661
6360 W THIRD ST
LOS ANGELES, CA 90036

RCRA-LQG **1016140182**
FINDS **CAR000238063**
ECHO

Relative:
Higher

Actual:
180 ft.

RCRA-LQG:

Date form received by agency:	03/27/2013
Facility name:	CVS PHARMACY NO 9661
Facility address:	6360 W THIRD ST LOS ANGELES, CA 90036
EPA ID:	CAR000238063
Mailing address:	ONE CVS DR WOONSOCKET, RI 02895
Contact:	WENDY L BRANT
Contact address:	ONE CVS DR WOONSOCKET, RI 02895
Contact country:	US
Contact telephone:	401-765-1500
Contact email:	WENDY.BRANT@CVSCAREMARK.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

CVS PHARMACY NO 9661 (Continued) **1016140182**

Owner/Operator Summary:

Owner/operator name:	GARFIELD BEACH CVS LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/02/2006
Owner/Op end date:	Not reported

Owner/operator name:	THIRD FAIRFAX LLC
Owner/operator address:	6380 WILSHIRE BLVD STE 800
	LOS ANGELES, CA 90048
Owner/operator country:	US
Owner/operator telephone:	323-651-1808
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/01/1986
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:	D001
. Waste name:	IGNITABLE WASTE

. Waste code:	D002
. Waste name:	CORROSIVE WASTE

. Waste code:	D009
. Waste name:	MERCURY

. Waste code:	P001
. Waste name:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code:	P042
. Waste name:	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

CVS PHARMACY NO 9661 (Continued) **1016140182**

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Violation Status: No violations found

FINDS:

Registry ID: 110055439208

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.

STATE MASTER

ECHO:
Envid: 1016140182
Registry ID: 110055439208
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110055439208

B4
West
< 1/8
0.066 mi.
350 ft.

KINGS CLEANERS **RCRA-SQG** **1000236914**
349 S FAIRFOX AVE **FINDS** **CAD981984180**
LOS ANGELES, CA 90036 **ECHO**
CA HAZNET

Site 1 of 4 in cluster B

Relative:
Lower

Actual:
178 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: KINGS CLEANERS
Facility address: 349 S FAIRFOX AVE
LOS ANGELES, CA 90036
EPA ID: CAD981984180
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: KIM PIL

KINGS CLEANERS (Continued) **1000236914**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/02/1987
Site name: KINGS CLEANERS
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002764768

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.

KINGS CLEANERS (Continued) **1000236914**

ECHO:
Envid: 1000236914
Registry ID: 110002764768
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002764768

HAZNET:
envid: 1000236914
Year: 2000
GEPAID: CAD981984180
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: PO BOX 741202
Mailing City,St,Zip: LOS ANGELES, CA 900049203
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: 0.21
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000236914
Year: 1998
GEPAID: CAD981984180
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 349 S FAIRFAX AVE
Mailing City,St,Zip: LOS ANGELES, CA 900363124
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Recycler
Tons: .2107
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000236914
Year: 1997
GEPAID: CAD981984180
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 349 S FAIRFAX AVE
Mailing City,St,Zip: LOS ANGELES, CA 900363124
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene,

KINGS CLEANERS (Continued) **1000236914**

	etc)
Disposal Method:	Recycler
Tons:	.2107
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000236914
Year:	1997
GEPAID:	CAD981984180
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	349 S FAIRFAX AVE
Mailing City,St,Zip:	LOS ANGELES, CA 900363124
Gen County:	Not reported
TSD EPA ID:	CAD981397417
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Recycler
Tons:	.0000
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000236914
Year:	1996
GEPAID:	CAD981984180
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	349 S FAIRFAX AVE
Mailing City,St,Zip:	LOS ANGELES, CA 900363124
Gen County:	Not reported
TSD EPA ID:	CAD981397417
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Recycler
Tons:	.2107
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

B5 **FAIR FINE DRYCLEANERS** **CA DRYCLEANERS** **S108540828**
West **349 S FAIRFAX AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.066 mi.
350 ft. **Site 2 of 4 in cluster B**

Relative:
Lower

Actual:
178 ft.

DRYCLEANERS:

EPA Id:	CAL000320722
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211

FAIR FINE DRYCLEANERS (Continued) **S108540828**

SIC Description:	Power Laundries, Family and Commercial
Create Date:	06/14/2007
Facility Active:	No
Inactive Date:	06/30/2014
Facility Addr2:	Not reported
Owner Name:	CORNER STONE M&J CORP
Owner Address:	349 S FAIRFAX AVE
Owner Address 2:	Not reported
Owner Telephone:	3236537778
Contact Name:	JOY AN
Contact Address:	349 S FAIRFAX AVE
Contact Address 2:	Not reported
Contact Telephone:	3236537778
Mailing Name:	Not reported
Mailing Address 1:	349 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City:	LOS ANGELES
Mailing State:	CA
Mailing Zip:	900360000
Owner Fax:	0000000000
Region Code:	3

EPA Id:	CAL000277769
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	01/05/2004
Facility Active:	No
Inactive Date:	06/15/2007
Facility Addr2:	Not reported
Owner Name:	HUNG JUNG
Owner Address:	349 S FAIRFAX AVE
Owner Address 2:	Not reported
Owner Telephone:	2132722424
Contact Name:	HONG JUNG
Contact Address:	535 S CURSON AVE APT 3K
Contact Address 2:	Not reported
Contact Telephone:	2132722424
Mailing Name:	Not reported
Mailing Address 1:	349 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City:	LOS ANGELES
Mailing State:	CA
Mailing Zip:	900363124
Owner Fax:	Not reported
Region Code:	3

B6 **EDR Hist Cleaner** **1015047425**
West **349 S FAIRFAX AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.066 mi.
350 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
178 ft.

EDR Historical Cleaners:

Name:	FAIR CLEANERS
Year:	2010
Address:	349 S FAIRFAX AVE
Name:	FAIR CLEANERS
Year:	2011
Address:	349 S FAIRFAX AVE
Name:	FAIR CLEANERS
Year:	2012
Address:	349 S FAIRFAX AVE

B7 **WILLIAM L OLSON INC** **CA SWEEPS UST** **S101588173**
West **301 S FAIRFAX AVE** **CA FID UST** **N/A**
< 1/8 **LOS ANGELES, CA 90048**
0.067 mi.
354 ft. **Site 4 of 4 in cluster B**

Relative:
Lower

Actual:
178 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	6996
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
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

CA FID UST:

Facility ID:	19056411
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	301 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900480000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported

WILLIAM L OLSON INC (Continued) **S101588173**

Comments: Not reported
Status: Active

C8
South
< 1/8
0.083 mi.
437 ft.

HANCOCK PARK ELEMENTARY SCHOOL **CA ENVIROSTOR** **S105628457**
408 SOUTH FAIRFAX AVENUE **CA SCH** **N/A**
LOS ANGELES, CA 90036

Site 1 of 3 in cluster C

Relative:
Lower

Actual:
179 ft.

ENVIROSTOR:

Facility ID:	19000014
Status:	Inactive - Needs Evaluation
Status Date:	11/22/2005
Site Code:	300796
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Thomas Cota
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	50
Senate:	26
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.06950
Longitude:	-118.3602
APN:	5509018902
Past Use:	* UNKNOWN
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	HANCOCK PARK ELEM. SCHOOL
Alias Type:	Alternate Name
Alias Name:	HANCOCK PARK ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5509018902
Alias Type:	APN
Alias Name:	300796
Alias Type:	Project Code (Site Code)
Alias Name:	19000014
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:	02/10/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

HANCOCK PARK ELEMENTARY SCHOOL (Continued) **S105628457**

Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/17/2002
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	19000014
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Thomas Cota
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	300796
Assembly:	50
Senate:	26
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	11/22/2005
Restricted Use:	NO
Funding:	School District
Latitude:	34.06950
Longitude:	-118.3602
APN:	5509018902
Past Use:	* UNKNOWN
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	HANCOCK PARK ELEM. SCHOOL
Alias Type:	Alternate Name
Alias Name:	HANCOCK PARK ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	5509018902
Alias Type:	APN
Alias Name:	300796
Alias Type:	Project Code (Site Code)
Alias Name:	19000014
Alias Type:	Envirostor ID Number

Completed Info:

HANCOCK PARK ELEMENTARY SCHOOL (Continued) **S105628457**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/17/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C9 **LA USD HANCOCK PARK EL** **RCRA-SQG** **1000427657**
South **408 S FAIRFAX AVE** **FINDS** **CAD981980196**
< 1/8 **LOS ANGELES, CA 90036** **ECHO**
0.083 mi.
437 ft. **Site 2 of 3 in cluster C**

Relative:
Lower

Actual:
179 ft.

RCRA-SQG:
Date form received by agency: 04/09/1987
Facility name: LA USD HANCOCK PARK EL
Facility address: 408 S FAIRFAX AVE
LOS ANGELES, CA 90036
EPA ID: CAD981980196
Mailing address: 1425 S SAN PEDRO RM 215
LOS ANGELES, CA 90015
Contact: ENVIRONMENTAL MANAGER
Contact address: 408 S FAIRFAX AVE
LOS ANGELES, CA 90036
Contact country: US
Contact telephone: (213) 742-7371
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal

LA USD HANCOCK PARK EL (Continued) **1000427657**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LA USD
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002763313

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000427657
Registry ID: 110002763313
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002763313

C10 **LOS ANGELES UNIFIED SCHOOL** **CA UST** **U003780820**
South **408 S FAIRFAX AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.083 mi.
437 ft. **Site 3 of 3 in cluster C**

Relative: UST:
Lower
Facility ID: 24381
Permitting Agency: LOS ANGELES, CITY OF
Actual: Latitude: 34.070851
179 ft. Longitude: -118.358867

D11 **MAS AUTO SERVICE** **CA LUST** **S101296987**
WSW **371 FAIRFAX** **CA HIST CORTESE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.084 mi.
443 ft. **Site 1 of 6 in cluster D**

Relative: LUST REG 4:
Lower

Region:	4	
Regional Board:	04	
Actual: County:	Los Angeles	
177 ft. Facility Id:	900360107	
Status:	Remediation Plan	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603700891	
W Global ID:	Not reported	
Staff:	MSH	
Local Agency:	19050	
Cross Street:	FOURTH ST	
Enforcement Type:	SEL	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		11/25/1991
Date Leak Record Entered:	11/10/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		7/16/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		6716.629056307957783408405165 5
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		11/25/1991
Preliminary Site Assessment Began:		12/7/1998
Pollution Characterization Began:		4/14/1999
Remediation Plan Submitted:		3/25/2004
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		11/25/1991
Enforcement Action Date:		4/14/1999
Historical Max MTBE Date:		12/19/2000
Hist Max MTBE Conc in Groundwater:		840

MAS AUTO SERVICE (Continued) **S101296987**

Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: KIYUKO YOSHIOKA
RP Address: 6351 COLGATE AVE.
Program: LUST
Lat/Long: 34.0703499 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: QUARTERLY GW MONITORING RPT; 5/18/00 1ST QTR GW MON RPT 2000; 7/14/00 2ND QTR GW MON RPT 2000; 9/19/00 3RD QTR GW MON RPT 2000; 1/8/01 4TH QTR GW MON RPT 2000

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900360107

D12 **EDR Hist Auto** **1015454225**
WSW **371 S FAIRFAX AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.084 mi.
443 ft. **Site 2 of 6 in cluster D**

Relative:
Lower

Actual:
177 ft.

EDR Historical Auto Stations:
Name: MAS AUTO SERVICE
Year: 1999
Address: 371 S FAIRFAX AVE

Name: MAS AUTO SERVICE
Year: 2003
Address: 371 S FAIRFAX AVE

D13 **MASAUKI MAS YOSHIOKA** **CA SWEEPS UST** **S101583269**
WSW **371 S FAIRFAX AVE** **CA HIST UST** **N/A**
< 1/8 **LOS ANGELES, CA 90036** **CA FID UST**
0.084 mi.
443 ft. **Site 3 of 6 in cluster D**

Relative:
Lower

Actual:
177 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 4053
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

MASAUKI MAS YOSHIOKA (Continued) **S101583269**

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: 00027A9E
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027A9E.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:

CA FID UST:
Facility ID: 19003243
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2130000000
Mail To: Not reported
Mailing Address: 371 S FAIRFAX AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900360000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

D14 **MAS AUTO SERVICE** **CA LUST** **S114458527**
WSW **371 SOUTH FAIRFAX AVE** **N/A**
< 1/8 **LOS ANGELES, CA 90036**
0.089 mi.
470 ft. **Site 4 of 6 in cluster D**

Relative:
Lower

Actual:
176 ft.

LUST:

Region:	STATE
Global Id:	T0603700891
Latitude:	34.0701425203473
Longitude:	-118.361669810451
Case Type:	LUST Cleanup Site
Status:	Open - Remediation
Status Date:	09/16/2005
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	DPP
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900360107
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700891
Contact Type:	Regional Board Caseworker
Contact Name:	DANIEL PIROTTON
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	dpirotton@waterboards.ca.gov
Phone Number:	2135766714

Global Id:	T0603700891
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603700891
Status:	Open - Case Begin Date
Status Date:	11/25/1991

Global Id:	T0603700891
Status:	Open - Remediation
Status Date:	09/22/2003

Global Id:	T0603700891
Status:	Open - Remediation
Status Date:	06/18/2004

Global Id:	T0603700891

MAS AUTO SERVICE (Continued) **S114458527**

Status: Open - Remediation
Status Date: 11/10/2004

Global Id: T0603700891
Status: Open - Remediation
Status Date: 09/16/2005

Global Id: T0603700891
Status: Open - Site Assessment
Status Date: 11/25/1991

Global Id: T0603700891
Status: Open - Site Assessment
Status Date: 12/07/1998

Global Id: T0603700891
Status: Open - Site Assessment
Status Date: 04/14/1999

Regulatory Activities:
Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 05/07/2015
Action: Staff Letter

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2004
Action: Remedial Progress Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 04/24/2003
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 06/25/2002
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT

MAS AUTO SERVICE (Continued) **S114458527**

Date: 12/16/2013
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 01/13/2016
Action: Waste Discharge Requirements

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/27/2011
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2016
Action: Pilot Study/ Treatability Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/31/2015
Action: Well Installation Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2004
Action: CAP/RAP - Feasibility Study Report

MAS AUTO SERVICE (Continued) **S114458527**

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2016
Action: Remedial Progress Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/31/2002
Action: Other Report / Document

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2002
Action: Soil and Water Investigation Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2005
Action: Remedial Progress Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/27/2012
Action: Soil and Water Investigation Workplan

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 03/29/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 01/13/2016
Action: Staff Letter

Global Id: T0603700891
Action Type: Other

MAS AUTO SERVICE (Continued) **S114458527**

Date: 11/25/1991
Action: Leak Reported

Global Id: T0603700891
Action Type: RESPONSE
Date: 05/08/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 05/08/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/15/2013
Action: Soil and Water Investigation Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/31/2017
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 09/22/2003
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 04/14/1999
Action: Staff Letter

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2004
Action: Remedial Progress Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

MAS AUTO SERVICE (Continued) **S114458527**

Global Id: T0603700891
Action Type: RESPONSE
Date: 09/25/2013
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0603700891
Action Type: RESPONSE
Date: 04/15/2014
Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 09/11/2012
Action: Staff Letter

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/19/2012
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 11/11/2013
Action: Request for Closure

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2014
Action: Well Installation Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/27/2014
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603700891
Action Type: RESPONSE
Date: 06/15/2015
Action: Well Installation Workplan - Regulator Responded

Global Id: T0603700891
Action Type: ENFORCEMENT

MAS AUTO SERVICE (Continued) **S114458527**

Date: 04/08/2008
Action: Staff Letter

Global Id: T0603700891
Action Type: ENFORCEMENT
Date: 07/13/2015
Action: Staff Letter

Global Id: T0603700891
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 06/25/2003
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2004
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2016
Action: Pilot Study/ Treatability Report

Global Id: T0603700891
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603700891
Action Type: REMEDIATION
Date: 01/15/2004
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0603700891
Action Type: REMEDIATION
Date: 04/06/2004
Action: In Situ Physical/Chemical Treatment (other than SVE)

D15
WSW
< 1/8
0.089 mi.
470 ft.

MAS TEXACO SERVICE
371 S FAIRFAX AVE
LOS ANGELES, CA 90036

Site 5 of 6 in cluster D

CA HIST UST **U001561429**
N/A

Relative:
Lower

Actual:
176 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000067259
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MAS YOSHIOKA
Telephone:	2138529183
Owner Name:	MAS YOSHIOKA
Owner Address:	371 S. FAIRFAX AVE.
Owner City,St,Zip:	LOS ANGELES, CA 90036
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00004010
Tank Used for:	WASTE
Type of Fuel:	2
Container Construction Thickness:	X
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00003750
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

16
ENE
< 1/8
0.098 mi.
515 ft.

THE GROVE AT FARMERS MARKET
6301 003RD
LOS ANGELES, CA 90036

CA SLIC **S104404706**
N/A

Relative:
Higher

Actual:
185 ft.

SLIC REG 4:
Region: 4
Facility Status: Post Remediation Monitoring
SLIC: 0898
Substance: TPH
Staff: John Geroch

D17
SW
< 1/8
0.104 mi.
547 ft.

401 S FAIRFAX AVE
LOS ANGELES, CA 90036
Site 6 of 6 in cluster D

EDR Hist Cleaner **1015055010**
N/A

Relative:
Lower

Actual:
176 ft.

EDR Historical Cleaners:
Name: THRIFTY TAILOR & DRY CLEANERS
Year: 2005
Address: 401 S FAIRFAX AVE

Name: THRIFTY TAILOR & DRY CLEANERS
Year: 2006
Address: 401 S FAIRFAX AVE

18
NW
< 1/8
0.110 mi.
579 ft.

URICK F A
7051/2 W 3D
LOS ANGELES, CA

EDR Hist Cleaner **1009188469**
N/A

Relative:
Lower

Actual:
178 ft.

EDR Historical Cleaners:
Name: URICK F A
Year: 1924
Type: CLOTHES CLEANERS PRESSERS AND DYERS

19
SW
< 1/8
0.115 mi.
605 ft.

SNYDER A G
419 S FAIRFAX AVE
LOS ANGELES, CA

EDR Hist Auto **1009080701**
N/A

Relative:
Lower

Actual:
176 ft.

EDR Historical Auto Stations:
Name: SNYDER A G
Year: 1937
Type: GASOLINE AND OIL SERVICE STATIONS

E20
NNW
< 1/8
0.118 mi.
623 ft.

FARMERS MARKET AUTOMOTIVE SV
166 S FAIRFAX
LOS ANGELES, CA 90036

Site 1 of 3 in cluster E

EDR Hist Auto **1009082217**
N/A

Relative:
Higher

Actual:
180 ft.

EDR Historical Auto Stations:

Name:	ANDERSON V L
Year:	1942
Type:	GASOLINE AND OIL SERVICE STATIONS
Name:	SCHULTZ FRED E FARMERS MARKET AUTOMOTIVE CENTER
Year:	1999
Address:	166 S FAIRFAX AVE

E21
NNW
< 1/8
0.118 mi.
623 ft.

FARMERS MARKET AUTOMOTIVE CENT
166 S FAIRFAX AVE
LOS ANGELES, CA 90036

Site 2 of 3 in cluster E

CA HIST UST **U001561420**
N/A

Relative:
Higher

Actual:
180 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000029388
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	2139357251
Owner Name:	FRED E. SCHULTZ
Owner Address:	166 SO. FAIRFAX AVE
Owner City,St,Zip:	LOS ANGELES, CA 90036
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1964
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	3
Year Installed:	1971
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	2
Year Installed:	1964
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported

FARMERS MARKET AUTOMOTIVE CENT (Continued) **U001561420**

Leak Detection: None

E22
NNW
< 1/8
0.118 mi.
623 ft.

FARMERS MARKET AUTOMOTIVE CENT
166 S FAIRFAX AVE
LOS ANGELES, CA 90036

CA SWEEPS UST **S101617378**
CA HIST UST **N/A**
CA FID UST

Site 3 of 3 in cluster E

Relative:
Higher

Actual:
180 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	1767
Number:	Not reported
Board Of Equalization:	44-011964
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001767-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	1767
Number:	Not reported
Board Of Equalization:	44-011964
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001767-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1767
Number:	Not reported
Board Of Equalization:	44-011964
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001767-000003
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED

FARMERS MARKET AUTOMOTIVE CENT (Continued) **S101617378**

Number Of Tanks: Not reported

HIST UST:

File Number:	000268EB
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000268EB.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:

CA FID UST:

Facility ID:	19017476
Regulated By:	UTNKI
Regulated ID:	00029388
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2139357251
Mail To:	Not reported
Mailing Address:	166 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900360000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

---

23 **THE GROVE AT FARMERS MARKET** **CA SLIC** **S106484026**
NNE **6301 WEST THIRD ST** **N/A**
1/8-1/4 **LOS ANGELES, CA**
0.141 mi.
742 ft.

Relative:
Higher

Actual:
186 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Verification Monitoring**
Status Date:	01/21/2000
Global Id:	SL2049G1726

THE GROVE AT FARMERS MARKET (Continued) **S106484026**

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.071211
Longitude:	-118.358632
Case Type:	Cleanup Program Site
Case Worker:	KL
Local Agency:	Not reported
RB Case Number:	0898
File Location:	Regional Board
Potential Media Affected:	Indoor Air, Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	The Grove is a 16-acre commercial development site, has been historically related to oil production operations. Soil, soil gas, and groundwater beneath the property are impacted by petroleum hydrocarbons. No free product is present at the site. No municipal supply well is located within three miles from the site. Shallow aquifer is at 5 to 25 feet below grade. Several phases of environmental assessments including health risk assessment and remediation were conducted through 2000. Site soil gas mitigation system under residential landuse including vapor barrier and venting system for indoor air exposure pathway was permitted and installed. The complete site improvements satisfied human health protection requirements. The site has been redeveloped as commercial land-use prevents additional excavation.

Click here to access the California GeoTracker records for this facility:

F24 **P & K ACCOCIATES** **CT MANIFEST** **S109737066**
NNW **145 SOUTH FAIRFAX AVE** **N/A**
1/8-1/4 **LOS ANGELES, CA 90036**
0.178 mi.
940 ft. **Site 1 of 2 in cluster F**

Relative: Higher

CT MANIFEST:

Actual: 180 ft.

Detail:

Year:	1987
Manifest Id:	INA0229106
EPA ID:	CTP000007200
TSDF EPA ID:	IND078911146
TSDF Name:	ADAMS CENTER LANDFILL
TSDF Address:	4636 ADAMS CENTER RD
TSDF City,St,Zip:	FORT WAYNE, ND 46806
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	04/07/1987
Transporter EPA ID:	NYD051809952
Transporter Name:	BUFFALO FUEL CORP
Transporter Address:	Not reported
Transporter City,St,Zip:	CT
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA

P & K ACCOCIATES (Continued) **S109737066**

Trans 2 Phone:	Not reported
Generator Phone:	2139378200
Generator Mailing Addr:	145 SOUTH FAIRFAX AVE
Generator Mailing City/State/Zip:	90036
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	04/07/1987
Date Received:	Not reported
Last modified date:	04/27/2004
Last modified by:	IG
Comments:	Not reported

Waste:

Year:	1987
Manifest Id:	INA0229106
Waste Occurence:	1
UNNA:	9189
Hazard Class:	ORM-E
US Dot Description:	HAZARDOUS WASTE SOLID NOS (CREOSOTE)
No of Containers:	001
Container Type:	DT
Quantity:	18
Weight/Volume:	Y
Additional Description:	Y
Handling Code:	Not reported
Date Record Was Last Modified:	2004-04-27 00:00:00
DEO Who Last Modified Record:	IG
EPA Waste Code:	U051
Recycled Waste?:	False
Date Record Was Last Modified:	2004-04-27 00:00:00

F25 **FARMERS MARKET CAR WASH (FORMER)** **CA LUST** **S109283858**
NNW **118 S FAIRFAX AVE** **N/A**
1/8-1/4 **LOS ANGELES, CA 90036**
0.179 mi.
944 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
181 ft.

LUST:

Region:	STATE
Global Id:	T060377671
Latitude:	34.0731887
Longitude:	-118.361385
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/22/2002
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JH
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900360243
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

FARMERS MARKET CAR WASH (FORMER) (Continued) **S109283858**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T060377671
Contact Type:	Regional Board Caseworker
Contact Name:	JAY HUANG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	jhuang@waterboards.ca.gov
Phone Number:	2135766711

Status History:

Global Id:	T060377671
Status:	Completed - Case Closed
Status Date:	01/22/2002

Global Id:	T060377671
Status:	Open - Case Begin Date
Status Date:	10/31/2001

Regulatory Activities:

Global Id:	T060377671
Action Type:	Other
Date:	10/31/2001
Action:	Leak Reported

G26 **FARMERS MARKET AUTO CENTER** **CA LUST** **S104159596**
NNW **166 FAIRFAX AVE S** **CA HIST CORTESE** **N/A**
1/8-1/4 **PARK LA BREA, CA 90036**
0.187 mi.
988 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
181 ft.

LUST:

Region:	STATE
Global Id:	T0603700901
Latitude:	34.0732958
Longitude:	-118.3612758
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/21/2000
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	EL
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900360207
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700901
Contact Type:	Local Agency Caseworker

FARMERS MARKET AUTO CENTER (Continued) **S104159596**

Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603700901
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603700901
Status: Completed - Case Closed
Status Date: 08/21/2000

Global Id: T0603700901
Status: Open - Case Begin Date
Status Date: 05/13/1992

Global Id: T0603700901
Status: Open - Remediation
Status Date: 08/03/1992

Regulatory Activities:
Global Id: T0603700901
Action Type: Other
Date: 05/13/1992
Action: Leak Discovery

Global Id: T0603700901
Action Type: Other
Date: 08/03/1992
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900360207
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603700901
W Global ID: Not reported
Staff: UNK
Local Agency: 19050

FARMERS MARKET AUTO CENTER (Continued) **S104159596**

Cross Street:	W 003RD ST	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/13/1992	
Date Leak First Reported:		8/3/1992
Date Leak Record Entered:	5/23/1995	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		5/23/1995
Date the Case was Closed:		4/14/1993
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	OLD CASENO WAS 052395-15	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		7084.21799422166021068882479 12
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		8/3/1992
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	A.F. GILMORE CO	
RP Address:	PO BOX 480314 LA CA 90048	
Program:	LUST	
Lat/Long:	34.0732958 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	GROUNDWATER @ 22.7' BGS	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900360207

G27
NNW
1/8-1/4
0.203 mi.
1070 ft.

JERALD FRIEDMAN/J KORNWASSEP
145 S FAIRFAX AVE
LOS ANGELES, CA 90036

Site 2 of 2 in cluster G

CA SWEEPS UST **S101586998**
CA FID UST **N/A**
CA HAZNET

Relative:
Higher

Actual:
181 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	7981
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
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

CA FID UST:

Facility ID:	19054692
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	UNK
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900360000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

HAZNET:

envid:	S101586998
Year:	2015
GEPAID:	CAL000390271
Contact:	RHONDA STARKS OPERATIONS MGR
Telephone:	3235492115
Mailing Name:	Not reported
Mailing Address:	6301 W 3RD ST
Mailing City,St,Zip:	LOS ANGELES, CA 900360000
Gen County:	Los Angeles
TSD EPA ID:	PAD089352983
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.9275

JERALD FRIEDMAN/J KORNWASSEP (Continued) **S101586998**

Cat Decode:	Other inorganic solid waste
Method Decode:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Facility County:	Los Angeles
envid:	S101586998
Year:	2015
GEPAID:	CAL000390271
Contact:	RHONDA STARKS OPERATIONS MGR
Telephone:	3235492115
Mailing Name:	Not reported
Mailing Address:	6301 W 3RD ST
Mailing City,St,Zip:	LOS ANGELES, CA 900360000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
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:	1.43805
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S101586998
Year:	2014
GEPAID:	CAL000390271
Contact:	RHONDA STARKS OPERATIONS MGR
Telephone:	3235492115
Mailing Name:	Not reported
Mailing Address:	6301 W 3RD ST
Mailing City,St,Zip:	LOS ANGELES, CA 900360000
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
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:	2.33805
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles
envid:	S101586998
Year:	2013
GEPAID:	CAL000390271
Contact:	RHONDA STARKS
Telephone:	3235492115
Mailing Name:	Not reported
Mailing Address:	6301 W 3RD ST
Mailing City,St,Zip:	LOS ANGELES, CA 90036
Gen County:	Los Angeles
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

JERALD FRIEDMAN/J KORNWASSEP (Continued) **S101586998**

Tons: 0.75
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

---

28 **MAC 695441** **RCRA-SQG 1019899519**
ENE **189 THE GROVE DR SPC. 0-20** **ECHO CAR000265785**
1/8-1/4 **LOS ANGELES, CA 90036**
0.222 mi.
1173 ft.

Relative:
Higher

Actual:
193 ft.

RCRA-SQG:
Date form received by agency: 06/17/2016
Facility name: MAC 695441
Facility address: 189 THE GROVE DR SPC. 0-20
LOS ANGELES, CA 90036
EPA ID: CAR000265785
Mailing address: PYOTT RD. STE.100
LAKE IN THE HILLS, CA 60156
Contact: JESSICA A OTTO
Contact address: PYOTT RD. STE.100
LAKE IN THE HILLS, CA 60156
Contact country: US
Contact telephone: (815) 862-3501
Contact email: JESSICA.OTTO@G2REV.COM
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: ESTEE LAUDER, INC.
Owner/operator address: FIFTH AVE
NEW YORK, NY 10153
Owner/operator country: US
Owner/operator telephone: (212) 572-4200
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/2016
Owner/Op end date: Not reported

Owner/operator name: ESTEE LAUDER, INC.
Owner/operator address: FIFTH AVE
NEW YORK, NY 10153
Owner/operator country: US
Owner/operator telephone: (212) 572-4200
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/2016
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

MAC 695441 (Continued) **1019899519**

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: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

ECHO:
Envid: 1019899519
Registry ID: 110069706562
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110069706562

H29 **MAJESTIC CAR WASH** **CA LUST S104406314**
WNW **8017 003RD ST W** **CA HIST CORTESE N/A**
1/8-1/4 **LOS ANGELES, CA 90048**
0.223 mi.
1176 ft. **Site 1 of 4 in cluster H**

Relative:
Lower

Actual:
174 ft.

LUST:
Region: STATE
Global Id: T0603701108
Latitude: 34.0719638
Longitude: -118.3642348
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/29/1996
Lead Agency: LOS ANGELES, CITY OF
Case Worker: EL
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900480089
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603701108
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780

MAJESTIC CAR WASH (Continued) **S104406314**

City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603701108
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603701108
Status: Completed - Case Closed
Status Date: 04/29/1996

Global Id: T0603701108
Status: Open - Case Begin Date
Status Date: 03/07/1995

Global Id: T0603701108
Status: Open - Remediation
Status Date: 12/11/1995

Global Id: T0603701108
Status: Open - Site Assessment
Status Date: 03/07/1995

Regulatory Activities:
Global Id: T0603701108
Action Type: Other
Date: 03/07/1995
Action: Leak Discovery

Global Id: T0603701108
Action Type: Other
Date: 03/07/1995
Action: Leak Stopped

Global Id: T0603701108
Action Type: Other
Date: 12/11/1995
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900480089
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported

MAJESTIC CAR WASH (Continued) **S104406314**

Case Type:	Soil	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603701108	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	EDINGBURGH	
Enforcement Type:	Not reported	
Date Leak Discovered:	3/7/1995	
Date Leak First Reported:		12/11/1995
Date Leak Record Entered:	12/28/1995	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	3/7/1995	
Date Case Last Changed on Database:		4/29/1996
Date the Case was Closed:		4/29/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	Corrosion	
Leak Source:	Tank	
Operator:	IGOR PAKHOVER	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		6080.779237976402978118922957 7
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		3/7/1995
Remediation Plan Submitted:		12/11/1995
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MAJESTIC CAR WASH	
RP Address:	8017 003RD ST W, LOS ANGELES 90048	
Program:	LUST	
Lat/Long:	34.0719638 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	OLD CASE #951228-01	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900480089

30
SSW
1/8-1/4
0.225 mi.
1190 ft.

PARAMOUNT CLEANERS
487 S FAIRFAX AVE
LOS ANGELES, CA 90036

CA DRYCLEANERS **S106077027**
N/A

Relative:
Lower

Actual:
173 ft.

DRYCLEANERS:

EPA Id:	CAL000264885
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	01/14/2003
Facility Active:	No
Inactive Date:	06/30/2008
Facility Addr2:	Not reported
Owner Name:	PARAMOUNT CLEANERS
Owner Address:	487 S FAIRFAX AVE
Owner Address 2:	Not reported
Owner Telephone:	3239331421
Contact Name:	JOSEPH SHABATIAN/OWNER
Contact Address:	487 S FAIRFAX AVE
Contact Address 2:	Not reported
Contact Telephone:	3239331421
Mailing Name:	JOSEPH SHABATIAN/OWNER
Mailing Address 1:	487 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City:	LOS ANGELES
Mailing State:	CA
Mailing Zip:	900360000
Owner Fax:	Not reported
Region Code:	3

H31
WNW
1/8-1/4
0.244 mi.
1286 ft.

MAJESTIC CAR WASH
8017 W THIRD STREET
LOS ANGELES, CA 90048

Site 2 of 4 in cluster H

CA HIST UST **S118412625**
N/A

Relative:
Lower

Actual:
173 ft.

HIST UST:

File Number:	0002639B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002639B.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

MAJESTIC CAR WASH (Continued) **S118412625**

Leak Detection: Not reported

Click here for Geo Tracker PDF:

H32 **MAJESTIC CAR WASH** **CA SWEEPS UST** **S101617532**
WNW **8017 W 3RD ST** **CA FID UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90048**
0.244 mi.
1286 ft. **Site 3 of 4 in cluster H**

Relative:
Lower

Actual:
173 ft.

SWEEPS UST:

Status:	Active
Comp Number:	6041
Number:	2
Board Of Equalization:	Not reported
Referral Date:	03-03-93
Action Date:	04-11-94
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

CA FID UST:

Facility ID:	19038137
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2139337393
Mail To:	Not reported
Mailing Address:	8017 W 3RD ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900480000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

H33 **MAJESTIC CAR WASH** **CA HIST UST** **U001561958**
WNW **8017 W 3RD ST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90048**
0.244 mi.
1286 ft. **Site 4 of 4 in cluster H**

Relative:
Lower

Actual:
173 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000065816
Facility Type:	Other
Other Type:	CAR WASH
Contact Name:	Not reported
Telephone:	2139337394
Owner Name:	ANVERSICE INC.
Owner Address:	8017 W. THIRD STREET
Owner City,St,Zip:	LOS ANGELES, CA 90048
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	003
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

---

34 **AUTO SERVICE CHUCKS** **CA SWEEPS UST** **S101585651**
NNW **105 S FAIRFAX AVE** **CA FID UST** **N/A**
1/8-1/4 **LOS ANGELES, CA 90036**
0.248 mi.
1310 ft.

Relative:
Higher

Actual:
181 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	4055
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported

AUTO SERVICE CHUCKS (Continued) **S101585651**

Created Date:	Not reported
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

CA FID UST:

Facility ID:	19027094
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	105 S FAIRFAX AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900360000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

I35 **CBS TELEVISION CITY** **CA LUST** **S104583666**
North **7800 BEVERLY** **CA HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90036**
0.293 mi.
1548 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
190 ft.

LUST:

Region:	STATE
Global Id:	T0603700889
Latitude:	34.075137
Longitude:	-118.360165
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/17/1998
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	CET
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900360089
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700889

CBS TELEVISION CITY (Continued) **S104583666**

Contact Type: Regional Board Caseworker
Contact Name: CHANDRA TYLER
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: cetyler@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603700889
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Status History:
Global Id: T0603700889
Status: Completed - Case Closed
Status Date: 09/17/1998

Global Id: T0603700889
Status: Open - Case Begin Date
Status Date: 11/13/1987

Global Id: T0603700889
Status: Open - Site Assessment
Status Date: 05/09/1990

Global Id: T0603700889
Status: Open - Site Assessment
Status Date: 05/11/1993

Global Id: T0603700889
Status: Open - Site Assessment
Status Date: 12/01/1993

Regulatory Activities:
Global Id: T0603700889
Action Type: Other
Date: 11/13/1987
Action: Leak Discovery

Global Id: T0603700889
Action Type: Other
Date: 05/09/1990
Action: Leak Reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900360089

I36 **CBS TELEVISION CITY** **CA LUST** **U001561418**
North **7800 BEVERLY BLVD** **CA HIST UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90036** **CA CHMIRS**
0.293 mi. **CA EMI**
1548 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
190 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900360089	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		EDET
Global ID:	T0603700889	
W Global ID:	Not reported	
Staff:	CEC	
Local Agency:	19050	
Cross Street:	GENESEE AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	11/13/1987	
Date Leak First Reported:		5/9/1990
Date Leak Record Entered:	5/16/1990	
Date Confirmation Began:	5/9/1990	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		2/4/1998
Date the Case was Closed:		9/17/1998
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		7968.651235996145687417852384
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		5/11/1993
Pollution Characterization Began:		12/1/1993
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		600
Hist Max MTBE Conc in Soil:		6280
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	CBS INC. TELEVISION CITY	
RP Address:	7800 BEVERLY BLVD, LOS ANGELES CA 90036	
Program:	LUST	
Lat/Long:	34.0759397 / -1	
Local Agency Staff:	PEJ	

CBS TELEVISION CITY (Continued) **U001561418**

Beneficial Use: Not reported
Priority: LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: 7718 BEVERLY BLVD. CONDUCTING GW MONITORING AND SAMPLING PROGRAM FOR ONSITE AND OFFSITE WELLS AT CBS FACILITY.

HIST UST:
File Number: 00026A87
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026A87.pdf
Region: STATE
Facility ID: 00000066198
Facility Type: Other
Other Type: TV PRODUCTION
Contact Name: LEO GREGORY
Telephone: 2138522461
Owner Name: CBS, INC. ATTN: DIRECTOR, FAC
Owner Address: 7800 BEVERLY BLVD.
Owner City,St,Zip: LOS ANGELES, CA 90036
Total Tanks: 0003

Tank Num: 001
Container Num: #1
Year Installed: 1952
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: 4
Container Construction Thickness: X
Leak Detection: Stock Inventor, None

Tank Num: 002
Container Num: #2
Year Installed: 1952
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: #3
Year Installed: 1952
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CHMIRS:
OES Incident Number: 2-0382
OES notification: 01/20/2002
OES Date: Not reported
OES Time: Not reported

CBS TELEVISION CITY (Continued) **U001561418**

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:	Yes
Waterway:	Ballona Creek
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	City of Los Angeles
Incident Date:	1/20/200212:00:00 AM
Admin Agency:	Los Angeles City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	Sewage
Gallons:	4643
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

CBS TELEVISION CITY (Continued) **U001561418**

Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A grease blockage in line caused overflow.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	75
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	31
NOX - Oxides of Nitrogen Tons/Yr:	7
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	37
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	28
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	37
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	28
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CBS TELEVISION CITY (Continued) **U001561418**

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	210
Reactive Organic Gases Tons/Yr:	19
Carbon Monoxide Emissions Tons/Yr:	24
NOX - Oxides of Nitrogen Tons/Yr:	31
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	156
Reactive Organic Gases Tons/Yr:	14
Carbon Monoxide Emissions Tons/Yr:	22
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	193
Reactive Organic Gases Tons/Yr:	18
Carbon Monoxide Emissions Tons/Yr:	22
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398

CBS TELEVISION CITY (Continued) **U001561418**

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:	156
Reactive Organic Gases Tons/Yr:	14
Carbon Monoxide Emissions Tons/Yr:	22
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
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:	156
Reactive Organic Gases Tons/Yr:	14
Carbon Monoxide Emissions Tons/Yr:	22
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	54167
Air District Name:	SC
SIC Code:	3398
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	156
Reactive Organic Gases Tons/Yr:	14
Carbon Monoxide Emissions Tons/Yr:	22
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

J37 **WORLD OIL CO** **RCRA-SQG** **1000278377**
NNW **7900 BEVERLY BLVD** **CA LUST** **CAD981160831**
1/4-1/2 **LOS ANGELES, CA 90048** **CA SWEEPS UST**
0.374 mi. **CA HIST UST**
1973 ft. **Site 1 of 3 in cluster J** **CA FID UST**
FINDS
Relative: **ECHO**
Higher **CA HAZNET**

Actual: **192 ft.**

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	WORLD OIL CO
Facility address:	7900 BEVERLY BLVD

WORLD OIL CO (Continued) **1000278377**

LOS ANGELES, CA 90048
EPA ID: CAD981160831
Mailing address: 9302 S GARFIELD
SOUTH GATE, CA 90280
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: WORLD OIL MARKETING CO #64
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

WORLD OIL CO (Continued) **1000278377**

Historical Generators:
Date form received by agency: 10/29/1985
Site name: WORLD OIL CO
Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T0603701107
Latitude: 34.075787
Longitude: -118.36178
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/13/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900480070
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603701107
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603701107
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603701107
Status: Completed - Case Closed
Status Date: 12/13/1996

Global Id: T0603701107
Status: Open - Case Begin Date
Status Date: 02/26/1991

Global Id: T0603701107
Status: Open - Site Assessment

WORLD OIL CO (Continued) **1000278377**

Status Date: 02/26/1991

Regulatory Activities:
Global Id: T0603701107
Action Type: RESPONSE
Date: 06/04/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603701107
Action Type: Other
Date: 02/26/1991
Action: Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900480070	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603701107	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		2/26/1991
Date Leak Record Entered:	2/27/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/8/1998
Date the Case was Closed:		12/13/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	OLD CASE #030591-01	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		7407.925827083515060720203009 1
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		2/26/1991
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		2900

WORLD OIL CO (Continued) **1000278377**

Hist Max MTBE Conc in Soil: .08
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: =
Organization: Not reported
Owner Contact: Not reported
Responsible Party: WORLD OIL MARKETING CO
RP Address: 9302 S GARFIELD AVE, SOUTH GATE CA 90280
Program: LUST
Lat/Long: 34.0759347 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: 12/27/96 - STATUS OF GW MONITORING & VE WELLS 12/31/96 - TRANSMITTAL OF GW MONITORING REPORT 06/24/97 - REC'D LOC LETTER

SWEEPS UST:
Status: Active
Comp Number: 334
Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000334-000001
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 6

Status: Active
Comp Number: 334
Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000334-000002
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 334

WORLD OIL CO (Continued) **1000278377**

Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000334-000003
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 334
Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000334-000004
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 334
Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000334-000005
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 334
Number: 1
Board Of Equalization: 44-011113
Referral Date: 03-04-93
Action Date: 03-04-93
Created Date: 02-29-88
Owner Tank Id: Not reported

WORLD OIL CO (Continued) **1000278377**

SWRCB Tank Id: 19-050-000334-000006
Tank Status: A
Capacity: 12000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST UST:
File Number: 000288E0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000288E0.pdf
Region: STATE
Facility ID: 00000003941
Facility Type: Gas Station
Other Type: Not reported
Contact Name: RON COLEMAN
Telephone: 2135608801
Owner Name: WORLD OIL MARKETING COMPANY
Owner Address: 9302 S. GARFIELD AVENUE
Owner City,St,Zip: LOS ANGELES, CA 90280
Total Tanks: 0006

Tank Num: 001
Container Num: 6401
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 6402
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 6403
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 6404
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported

WORLD OIL CO (Continued) **1000278377**

Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 6405
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 6406
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19003038
Regulated By: UTNKA
Regulated ID: 00003941
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2135608801
Mail To: Not reported
Mailing Address: 9302 S GARFIELD AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS ANGELES 900480000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

FINDS:

Registry ID: 110002678406

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

WORLD OIL CO (Continued) **1000278377**

corrective action activities required under RCRA.

ECHO:

Envid:	1000278377
Registry ID:	110002678406
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002678406

HAZNET:

envid:	1000278377
Year:	2015
GEPAID:	CAL000398711
Contact:	ALLEN FAASS
Telephone:	9492895286
Mailing Name:	Not reported
Mailing Address:	17311 S MAIN ST
Mailing City,St,Zip:	GARDENA, CA 90248
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.075
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	1000278377
Year:	2015
GEPAID:	CAL000398711
Contact:	ALLEN FAASS
Telephone:	9492895286
Mailing Name:	Not reported
Mailing Address:	17311 S MAIN ST
Mailing City,St,Zip:	GARDENA, CA 90248
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Tank bottom waste
Disposal Method:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.22935
Cat Decode:	Tank bottom waste
Method Decode:	Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County:	Los Angeles

J38 **APRO STATION #02** **CA LUST** **S105690138**
NNW **7900 BEVERLY BLVD.** **N/A**
1/4-1/2 **LOS ANGELES, CA 90048**
0.374 mi.
1973 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
192 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900480070A	
Status:	Remedial action (cleanup) Underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603788529	
W Global ID:	Not reported	
Staff:	TCS	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	TA-GEN	
Date Leak Discovered:	9/25/2001	
Date Leak First Reported:		11/16/2001
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Close Tank	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		7367.2368304074327680374610598
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		11/16/2001
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MS. EDNA GALINDO	
RP Address:	17311 S. MAIN ST.	
Program:	LUST	
Lat/Long:	34.075963 / -1	
Local Agency Staff:	Not reported	

APRO STATION #02 (Continued) **S105690138**

Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

J39 **WORLD OIL #64** **CA LUST** **S103672296**
NNW **7900 BEVERLY** **CA HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90048**
0.374 mi.
1973 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
192 ft.

LUST:

Region:	STATE
Global Id:	T0603788529
Latitude:	34.075963
Longitude:	-118.361665
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/04/2013
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	DMB
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900480070A
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603788529
Contact Type:	Regional Board Caseworker
Contact Name:	DAVID M. BJOSTAD
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4th Street, Suite 200
City:	Los Angeles
Email:	dave.bjostad@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603788529
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603788529
Status:	Completed - Case Closed
Status Date:	01/04/2013

Global Id:	T0603788529

WORLD OIL #64 (Continued) **S103672296**

Status: Open - Case Begin Date
Status Date: 09/25/2001

Global Id: T0603788529
Status: Open - Eligible for Closure
Status Date: 12/21/2012

Global Id: T0603788529
Status: Open - Remediation
Status Date: 11/08/2001

Global Id: T0603788529
Status: Open - Remediation
Status Date: 02/11/2008

Global Id: T0603788529
Status: Open - Remediation
Status Date: 02/24/2011

Global Id: T0603788529
Status: Open - Site Assessment
Status Date: 04/23/2002

Global Id: T0603788529
Status: Open - Site Assessment
Status Date: 06/05/2002

Global Id: T0603788529
Status: Open - Site Assessment
Status Date: 02/04/2008

Global Id: T0603788529
Status: Open - Site Assessment
Status Date: 11/03/2008

Global Id: T0603788529
Status: Open - Verification Monitoring
Status Date: 02/12/2009

Regulatory Activities:
Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 10/31/2012
Action: Notification - Preclosure

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 06/30/2011
Action: Staff Letter

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603788529
Action Type: RESPONSE

WORLD OIL #64 (Continued) **S103672296**

Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2009
Action: Well Installation Report

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2010
Action: Other Report / Document

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2008
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 05/20/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2011
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2010
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 07/21/2008
Action: Staff Letter

Global Id: T0603788529
Action Type: RESPONSE
Date: 09/08/2005
Action: Request for Closure

WORLD OIL #64 (Continued) **S103672296**

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 02/05/2008
Action: Site Visit / Inspection / Sampling

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 02/04/2008
Action: Staff Letter

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 01/15/2008
Action: Staff Letter

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2009
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603788529
Action Type: RESPONSE
Date: 05/20/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: ENFORCEMENT

WORLD OIL #64 (Continued) **S103672296**

Date: 01/04/2013
Action: Closure/No Further Action Letter

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 05/25/2011
Action: Other Workplan

Global Id: T0603788529
Action Type: RESPONSE
Date: 05/15/2013
Action: Well Destruction Report

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 08/02/2002
Action: Technical Correspondence / Assistance / Other

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2002
Action: Soil and Water Investigation Report

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2012
Action: Soil and Water Investigation Report

Global Id: T0603788529
Action Type: Other
Date: 11/16/2001
Action: Leak Reported

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2011
Action: Remedial Progress Report

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2008
Action: Other Report / Document

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 05/08/2002
Action: Staff Letter

Global Id: T0603788529
Action Type: ENFORCEMENT
Date: 04/18/2008
Action: Staff Letter

WORLD OIL #64 (Continued) **S103672296**

Global Id: T0603788529
Action Type: Other
Date: 09/25/2001
Action: Leak Discovery

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603788529
Action Type: RESPONSE
Date: 07/15/2007
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2004
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2005
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2006
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2006
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2006
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 01/15/2007
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 04/15/2007
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE
Date: 10/15/2007
Action: Other Report / Document

Global Id: T0603788529
Action Type: RESPONSE

WORLD OIL #64 (Continued) **S103672296**

Date:	11/05/2003
Action:	Soil and Water Investigation Report
Global Id:	T0603788529
Action Type:	RESPONSE
Date:	11/05/2003
Action:	Soil and Water Investigation Workplan
Global Id:	T0603788529
Action Type:	REMEDIATION
Date:	11/08/2001
Action:	Excavation
Global Id:	T0603788529
Action Type:	REMEDIATION
Date:	02/11/2008
Action:	Excavation
Global Id:	T0603788529
Action Type:	REMEDIATION
Date:	02/24/2011
Action:	Pump & Treat (P&T) Groundwater

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900480070

K40 **TEXACO** **CA LUST** **U001561439**
NNE **7718 BEVERLY BLVD** **CA HIST UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90036**
0.385 mi.
2033 ft. **Site 1 of 2 in cluster K**

Relative:
Higher

Actual:
199 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-16219	
Status:	Remediation Plan	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704395	
W Global ID:	Not reported	
Staff:	MSH	
Local Agency:	19000	
Cross Street:	GENESEE AVE	
Enforcement Type:	SEL	
Date Leak Discovered:	12/18/1990	
Date Leak First Reported:		1/3/1991
Date Leak Record Entered:	12/7/1991	
Date Confirmation Began:	Not reported	

TEXACO (Continued) **U001561439**

Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/26/2002
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: TEXACO
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 8464.003026760982981621946476
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 1/3/1991
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 9/6/2002
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: 6/14/1999
Historical Max MTBE Date: 1/1/1965
Hist Max MTBE Conc in Groundwater: 75000
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: Y. M. TUAN
RP Address: 145 SOUTH COLLEGE BLVD.
Program: LUST
Lat/Long: 34.0761597 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: ADJACENT CBS FACILITY LOCATED AT 7800 BEVERLY BLVD. TANKS/LINES TESTED TIGHT DURING OCT/NOV 90 TANK TEST. INITIAL SITE ASSESSMENT REPORT BEING PREPARED FOR SUBMITTAL. FREE PRODUCT (4"-6" IN ONE OF 4 WELLS ON-SITE) APPEARS TO

HIST UST:
File Number: 00028AC0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028AC0.pdf
Region: STATE
Facility ID: 00000017379
Facility Type: Gas Station
Other Type: Not reported
Contact Name: GEORGE A. ADAMIAN
Telephone: 2139328637
Owner Name: TEXACO U.S.A.
Owner Address: P.O.BOX 3756-3350 WILSHIRE BLV
Owner City,St,Zip: LOS ANGELES, CA 90010
Total Tanks: 0004

Tank Num: 001

TEXACO (Continued) **U001561439**

Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

Click here for Geo Tracker PDF:

K41 **TEXACO** **CA LUST** **S103671859**
NNE **7718 BEVERLY** **CA HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90036**
0.385 mi.
2033 ft. **Site 2 of 2 in cluster K**

Relative:
Higher

Actual:
199 ft.

LUST:

Region:	STATE
Global Id:	T0603704395
Latitude:	34.0761597
Longitude:	-118.3577477
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/29/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	CET
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-16219
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply

TEXACO (Continued) **S103671859**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704395
Contact Type: Regional Board Caseworker
Contact Name: CHANDRA TYLER
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: cetyler@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603704395
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Status History:
Global Id: T0603704395
Status: Completed - Case Closed
Status Date: 11/29/2012

Global Id: T0603704395
Status: Open - Case Begin Date
Status Date: 12/18/1990

Global Id: T0603704395
Status: Open - Remediation
Status Date: 09/20/1996

Global Id: T0603704395
Status: Open - Remediation
Status Date: 09/06/2002

Global Id: T0603704395
Status: Open - Remediation
Status Date: 12/02/2002

Global Id: T0603704395
Status: Open - Remediation
Status Date: 01/21/2005

Global Id: T0603704395
Status: Open - Remediation
Status Date: 04/21/2006

Global Id: T0603704395
Status: Open - Remediation
Status Date: 11/20/2006

TEXACO (Continued) **S103671859**

Global Id: T0603704395
Status: Open - Site Assessment
Status Date: 01/03/1991

Global Id: T0603704395
Status: Open - Site Assessment
Status Date: 08/13/2010

Global Id: T0603704395
Status: Open - Site Assessment
Status Date: 08/16/2010

Regulatory Activities:
Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 09/28/2012
Action: Notification - Preclosure

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2009
Action: Remedial Progress Report

Global Id: T0603704395
Action Type: RESPONSE
Date: 06/28/2007
Action: Request for Closure

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: Other
Date: 12/18/1990
Action: Leak Discovery

Global Id: T0603704395
Action Type: RESPONSE
Date: 06/07/2004
Action: Interim Remedial Action Plan

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2006
Action: Remedial Progress Report

TEXACO (Continued) **S103671859**

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 08/16/2010
Action: Staff Letter

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 11/29/2012
Action: Closure/No Further Action Letter

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 11/29/2012
Action: Closure/No Further Action Letter

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE

TEXACO (Continued) **S103671859**

Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2002
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: RESPONSE
Date: 03/26/2012
Action: Soil and Water Investigation Report

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: Other
Date: 01/03/1991
Action: Leak Reported

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/06/2010
Action: Other Workplan

TEXACO (Continued) **S103671859**

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 04/12/2002
Action: Staff Letter

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 06/19/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 09/06/2002
Action: Staff Letter

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE

TEXACO (Continued) **S103671859**

Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2006
Action: Remedial Progress Report

Global Id: T0603704395
Action Type: ENFORCEMENT
Date: 07/02/2004
Action: Staff Letter

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603704395
Action Type: REMEDIATION
Date: 05/13/1994
Action: Soil Vapor Extraction (SVE)

Global Id: T0603704395
Action Type: REMEDIATION
Date: 12/02/2002
Action: In Situ Physical/Chemical Treatment (other than SVE)

TEXACO (Continued) **S103671859**

Global Id: T0603704395
Action Type: REMEDIATION
Date: 12/02/2002
Action: In Situ Physical/Chemical Treatment (other than SVE)

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-16219

L42 **76 PRODUCT STATION NO. 4454** **CA LUST** **S103064863**
NNE **7751 BEVERLY BOULEVARD** **CA ENF** **N/A**
1/4-1/2 **LOS ANGELES, CA 90013** **CA HIST CORTESE**
0.403 mi.
2130 ft. **Site 1 of 2 in cluster L**

Relative: Higher

Actual: 200 ft.

LUST:
Region: STATE
Global Id: T0603700900
Latitude: 34.0761597
Longitude: -118.3584257
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/06/2015
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: DPP
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 900360198
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700900
Contact Type: Regional Board Caseworker
Contact Name: DANIEL PIROTTON
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: dpirotton@waterboards.ca.gov
Phone Number: 2135766714

Global Id: T0603700900
Contact Type: Local Agency Caseworker
Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Status History:

Global Id:	T0603700900
Status:	Completed - Case Closed
Status Date:	03/06/2015
Global Id:	T0603700900
Status:	Open - Case Begin Date
Status Date:	08/31/1993
Global Id:	T0603700900
Status:	Open - Eligible for Closure
Status Date:	12/17/2012
Global Id:	T0603700900
Status:	Open - Remediation
Status Date:	12/19/2002
Global Id:	T0603700900
Status:	Open - Site Assessment
Status Date:	08/10/1998
Global Id:	T0603700900
Status:	Open - Site Assessment
Status Date:	11/06/1998
Global Id:	T0603700900
Status:	Open - Site Assessment
Status Date:	08/06/1999
Global Id:	T0603700900
Status:	Open - Site Assessment
Status Date:	03/22/2007

Regulatory Activities:

Global Id:	T0603700900
Action Type:	ENFORCEMENT
Date:	01/22/2004
Action:	Staff Letter
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	10/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	04/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	01/15/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 08/15/2008
Action: Well Installation Report

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/26/2014
Action: Other Report / Document

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 03/06/2015
Action: Closure/No Further Action Letter

Global Id: T0603700900
Action Type: Other
Date: 05/26/1994
Action: Leak Discovery

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 04/15/2014
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 12/02/2010
Action: Other Workplan

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 04/11/2002
Action: Staff Letter

Global Id: T0603700900
Action Type: RESPONSE
Date: 08/20/2004
Action: Soil and Water Investigation Report

Global Id: T0603700900
Action Type: RESPONSE

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 12/07/2009
Action: Waste Discharge Requirements

Global Id: T0603700900
Action Type: RESPONSE
Date: 12/07/2007
Action: Well Installation Report

Global Id: T0603700900
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: Other
Date: 05/26/1994
Action: Leak Stopped

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 06/29/2004
Action: Staff Letter

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 08/06/1999
Action: Staff Letter

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 06/05/2003
Action: Staff Letter

Global Id: T0603700900
Action Type: Other
Date: 05/26/1994
Action: Leak Reported

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Global Id: T0603700900
Action Type: RESPONSE
Date: 08/25/2009
Action: Corrective Action Plan / Remedial Action Plan - Addendum

Global Id: T0603700900
Action Type: RESPONSE
Date: 02/17/2009
Action: Well Installation Report

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 11/06/2002
Action: Staff Letter

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 08/26/2014
Action: Notification - Preclosure

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2003
Action: Well Installation Report

Global Id: T0603700900
Action Type: RESPONSE

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Date:	10/15/2003
Action:	Unknown
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	08/20/2004
Action:	Remedial Progress Report
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	04/15/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	07/15/2002
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	07/15/2002
Action:	Interim Remedial Action Plan
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	04/15/2003
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	10/15/2002
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	07/15/2002
Action:	CAP/RAP - Feasibility Study Report
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	07/15/2002
Action:	Soil and Water Investigation Report
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	12/20/2002
Action:	CAP/RAP - Final Remediation / Design Plan
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	04/15/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0603700900
Action Type:	RESPONSE
Date:	10/15/2004
Action:	Monitoring Report - Quarterly

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603700900
Action Type: RESPONSE
Date: 12/17/2013
Action: Other Workplan - Regulator Responded

Global Id: T0603700900
Action Type: ENFORCEMENT
Date: 07/29/2010
Action: Staff Letter

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 06/18/2014
Action: Request for Closure - Regulator Responded

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 03/22/2007
Action: Soil and Water Investigation Workplan

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603700900
Action Type: RESPONSE

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Date: 07/15/2006
Action: Monitoring Report - Quarterly

ENF:

Region:	4
Facility Id:	203642
Agency Name:	ConocoPhillips Company Long Beach
Place Type:	Facility
Place Subtype:	Groundwater Cleanup Site
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.076111
Place Longitude:	118.357500
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	WDRNONMUNIPRCS
Program Category1:	WDR
Program Category2:	WDR
# Of Programs:	1
WDID:	4B198300008
Reg Measure Id:	170242
Reg Measure Type:	Enrollee
Region:	4
Order #:	R4-2005-0030
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1690
Status:	Historical
Status Date:	03/21/2014
Effective Date:	07/13/2005
Expiration/Review Date:	12/31/2012

76 PRODUCT STATION NO. 4454 (Continued) **S103064863**

Termination Date:	12/07/2009
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	371531
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	08/06/2009
Adoption/Issuance Date:	08/06/2009
Achieve Date:	Not reported
Termination Date:	08/06/2009
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV sent 8/6/09 for overdue, late & deficient monitoring reports.
Description:	NOV sent 8/6/09 for overdue, late & deficient monitoring reports.
Program:	WDR
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	900360198

L43
NNE
1/4-1/2
0.403 mi.
2130 ft.

Relative:
Higher

Actual:
200 ft.

TOSCO - 76 STATION #4454 **CA LUST** **S105693924**
7751 BEVERLY BLVD **N/A**
PARK LA BREA, CA 90036

Site 2 of 2 in cluster L

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	900360198
Status:	Remediation Plan
Substance:	Hydrocarbons
Substance Quantity:	Not reported
Local Case No:	Not reported

TOSCO - 76 STATION #4454 (Continued) **S105693924**

Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603700900	
W Global ID:	Not reported	
Staff:	DP	
Local Agency:	19050	
Cross Street:	GENESSEE	
Enforcement Type:	DLSEL	
Date Leak Discovered:	5/26/1994	
Date Leak First Reported:		5/26/1994
Date Leak Record Entered:	9/2/1993	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	5/26/1994	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	DEE, THOMAS C	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		8277.6162832998615365420 29273
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		8/10/1998
Preliminary Site Assessment Began:		11/6/1998
Pollution Characterization Began:		8/6/1999
Remediation Plan Submitted:		12/19/2002
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		4/1/1998
Hist Max MTBE Conc in Groundwater:		380000
Hist Max MTBE Conc in Soil:		16000
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MS. SHARI LONDON	
RP Address:	3611 HARBOR BL., STE. #200	
Program:	LUST	
Lat/Long:	34.0761597 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

44
SSW
1/4-1/2
0.416 mi.
2198 ft.

AL-SAL OIL (OLD UNOCAL)
6050 006TH ST W
LOS ANGELES, CA 90036

CA LUST **S102423794**
CA HIST CORTESE **N/A**

Relative:
Lower

Actual:
167 ft.

LUST:

Region:	STATE
Global Id:	T0603700893
Latitude:	34.0646731
Longitude:	-118.3603376
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/30/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	900360125
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603700893
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603700893
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603700893
Status:	Completed - Case Closed
Status Date:	07/30/1996

Global Id:	T0603700893
Status:	Open - Case Begin Date
Status Date:	01/26/1994

Global Id:	T0603700893
Status:	Open - Site Assessment
Status Date:	08/27/1994

Global Id:	T0603700893

AL-SAL OIL (OLD UNOCAL) (Continued) **S102423794**

Status: Open - Site Assessment
Status Date: 01/13/1995

Regulatory Activities:
Global Id: T0603700893
Action Type: Other
Date: 01/26/1994
Action: Leak Discovery

Global Id: T0603700893
Action Type: Other
Date: 08/27/1994
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 900360125
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603700893
W Global ID: Not reported
Staff: UNK
Local Agency: 19050
Cross Street: FAIRFAX AVE
Enforcement Type: Not reported
Date Leak Discovered: 1/26/1994
Date Leak First Reported: 8/27/1994
Date Leak Record Entered: 4/27/1995
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/10/1997
Date the Case was Closed: 7/30/1996
How Leak Discovered: Subsurface Monitoring
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: SAME AS ABOVE
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 5870.2467939727901815689784835
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 8/27/1994
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 1/13/1995
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported

AL-SAL OIL (OLD UNOCAL) (Continued) **S102423794**

Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: No
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: AL-SAL OIL COMPANY, INC.
RP Address: 3410 E. FOOTHILL BLVD., PASADENA, CA 91107
Program: LUST
Lat/Long: 34.0646731 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900360125

45
NNW
1/4-1/2
0.459 mi.
2426 ft.

Relative:
Higher

Actual:
186 ft.

AL SIMON
8023 BEVERLY BLVD
LOS ANGELES, CA 90048

CA SLIC **S101585566**
CA BROWNFIELDS **N/A**
CA SWEEPS UST
CA FID UST
CA EMI

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/07/2012
Global Id: T10000000452
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.076228
Longitude: -118.36444
Case Type: Cleanup Program Site
Case Worker: BA
Local Agency: Not reported
RB Case Number: 1236
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern: Benzene, Tetrachloroethylene (PCE), Toluene, Trichloroethylene (TCE), MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: The site consists of a rectangular parcel of land occupied by an L-shaped shopping center building. Historical aerial photographs show that the site was vacant prior to at least 1928. It was then occupied by an auto repair and gas station from approximately 1933 to 1985. The gas station maintained three underground storage tanks (USTs) with storage capacities of 1,000 gallons, 3,000 gallons, and 5,000 gallons, respectively. The USTs were removed in approximately 1985 when the gas station was demolished for the construction of the shopping center. After the construction of the shopping center, a dry

AL SIMON (Continued) **S101585566**

cleaner occupied one of the units of the building and operated from approximately 1987 to 1991. According to site assessment reports submitted to the Regional Board, the soil and groundwater beneath the site are contaminated with low level volatile organic compounds (VOCs) and petroleum hydrocarbons. After evaluation of the site assessment data and the results of a human health risk assessment, the site has been closed with a deed restriction on the property for commercial/industrial land use.

Click here to access the California GeoTracker records for this facility:

BROWNFIELDS:

Global ID:	T10000000452
Latitude:	34.076228
Longitude:	-118.36444
Project Type:	Cleanup Program Site
Status:	Completed - Case Closed
Status Date:	05/07/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Last Correspondence Date:	05/07/2012
Release Type:	Other Type of Release, Underground Storage Tank System - UST
Contaminant(s) of Concern:	Benzene, Tetrachloroethylene (PCE), Toluene, Trichloroethylene (TCE), MTBE / TBA / Other F
Media of Concern:	Aquifer used for drinking water supply, Soil
Past Use(s) that Caused Contamination:	DRY CLEANING, FUEL - VEHICLE STORAGE/ REFUELING
Human Health Exposure Controlled:	YES
Human Health Exposure Controlled Date:	Not reported
Groundwater Migration Controlled:	NOT APPLICABLE
Groundwater Migration Controlled Date:	Not reported
Primary Caseworker Name:	BIZUAYEHU AYELE
Primary Caseworker Organization Name:	LOS ANGELES RWQCB (REGION 4)
Primary Caseworker Phone Number:	213-576-6623
Primary Caseworker Address:	320 W 4TH STREET; SUITE 200
Primary Caseworker Address:	LOS ANGELES
Primary Caseworker Address:	CA
Primary Caseworker Email:	bayele@waterboards.ca.gov

SWEEPS UST:

Status:	Not reported
Comp Number:	6798
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
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:	0

CA FID UST:

Facility ID:	19025352

AL SIMON (Continued) **S101585566**

Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	8023 BEVERLY BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS ANGELES 900480000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	55547
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:	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

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46 **LIZ'S ANTIQUE HARDWARE** **CA ENVIROSTOR S106834719**
East **453 S LA BREA AVENUE** **CA EMI N/A**
1/2-1 **LOS ANGELES, CA 90036**
0.778 mi.
4106 ft.

Relative:
Higher

Actual:
212 ft.

ENVIROSTOR:

Facility ID:	60001631
Status:	No Further Action
Status Date:	05/15/2012
Site Code:	301558
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	50
Senate:	26

LIZ'S ANTIQUE HARDWARE (Continued) **S106834719**

Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.06635
Longitude:	-118.3441
APN:	5508-006-012
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	SOIL, SV
Alias Name:	5508-006-012
Alias Type:	APN
Alias Name:	301558
Alias Type:	Project Code (Site Code)
Alias Name:	60001631
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:	04/04/2012
Comments:	NFA Letter issued
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	04/12/2012
Comments:	Sent out VCA end letter
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	04/04/2012
Comments:	NFA Letter issued
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	02/24/2012
Comments:	VCA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/15/2012
Comments:	CRU memo sent.
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

LIZ'S ANTIQUE HARDWARE (Continued) **S106834719**

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	36789
Air District Name:	SC
SIC Code:	7216
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:	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:	1990
County Code:	19
Air Basin:	SC
Facility ID:	36789
Air District Name:	SC
SIC Code:	7216
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:	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

47
East
1/2-1
0.949 mi.
5013 ft.

LA BREA MOTORS
339 SOUTH LA BREA AVENUE
LOS ANGELES, CA 90036

CA ENVIROSTOR **S105024639**
CA VCP **N/A**
CA HIST CORTESE

Relative:
Higher

Actual:
214 ft.

ENVIROSTOR:

Facility ID:	60001395
Status:	No Further Action
Status Date:	02/14/2012
Site Code:	301517
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.37
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	50
Senate:	26

LA BREA MOTORS (Continued) **S105024639**

Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.06775
Longitude: -118.3440
APN: 5508-001-008, 5508-001-009, 5508-001-010
Past Use: VEHICLE MAINTENANCE
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: OTH
Alias Name: 5508-001-008
Alias Type: APN
Alias Name: 5508-001-009
Alias Type: APN
Alias Name: 5508-001-010
Alias Type: APN
Alias Name: 301517
Alias Type: Project Code (Site Code)
Alias Name: 60001395
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: 03/30/2011
Comments: DTSC issued letter requesting Risk Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/10/2011
Comments: Response to DTSC comments on Risk Assessment considered acceptable.
DTSC issued NFA letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/16/2011
Comments: Sent letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 06/10/2011
Comments: Issued NFA Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/11/2011

LA BREA MOTORS (Continued) **S105024639**

Comments: VCA executed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001395
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.37
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: Cleanup Chatsworth
Site Code: 301517
Assembly: 50
Senate: 26
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 02/14/2012
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 34.06775 / -118.3440
APN: 5508-001-008, 5508-001-009, 5508-001-010
Past Use: VEHICLE MAINTENANCE
Potential COC: 30022, 30027
Confirmed COC: 30022,30027
Potential Description: OTH
Alias Name: 5508-001-008
Alias Type: APN
Alias Name: 5508-001-009
Alias Type: APN
Alias Name: 5508-001-010
Alias Type: APN
Alias Name: 301517
Alias Type: Project Code (Site Code)
Alias Name: 60001395
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: 03/30/2011
Comments: DTSC issued letter requesting Risk Assessment.

LA BREA MOTORS (Continued) **S105024639**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/10/2011
Comments: Response to DTSC comments on Risk Assessment considered acceptable. DTSC issued NFA letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/16/2011
Comments: Sent letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 06/10/2011
Comments: Issued NFA Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/11/2011
Comments: VCA executed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 900360034

48
ESE
1/2-1
0.952 mi.
5028 ft.

LA BREA AVENUE MOTORS - 359 S. LA BREA PROPERTY **CA ENVIROSTOR** **S111418022**
359 SOUTH LA BREA AVENUE **N/A**
LA BREA, CA 90036

Relative:
Higher

Actual:
210 ft.

ENVIROSTOR:
Facility ID: 60001611
Status: No Further Action
Status Date: 04/03/2012

LA BREA AVENUE MOTORS - 359 S. LA BREA PROPERTY (Continued) **S111418022**

Site Code: 301551
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.31
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 50
Senate: 26
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.06714
Longitude: -118.3442
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: Under Investigation Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL Trichloroethylene (TCE 1,1-Dichloroethane 1,1-Dichloroethylene
Confirmed COC: 30022-NO 30024-NO 30025-NO 30192-NO 3002502-NO 30027-NO 30194-NO 31001-NO
Potential Description: OTH, SOIL, SV
Alias Name: 301551
Alias Type: Project Code (Site Code)
Alias Name: 60001611
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: 02/10/2012
Comments: DTSC determined FA is required to fully assess potential site impacts. Additional soil gas investigation and GW assessment is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/21/2012
Comments: DTSC approved the work plan on 02/21/2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 02/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/03/2012
Comments: DTSC concurs with the conclusion of the SSI Report that further environmental investigation of the Site is not required and approves

LA BREA AVENUE MOTORS - 359 S. LA BREA PROPERTY (Continued) **S111418022**

the Report. DTSC issued No Further Action Determination Letter on April 3, 2012.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	04/12/2012
Comments:	VCA Termination. NFA required.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	12/09/2011
Comments:	VCA executed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/15/2012
Comments:	CRU Closeout Memo

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	04/03/2012
Comments:	DTSC issued No Further Action Determination Letter on April 3, 2012.

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

49
ESE
1/2-1
0.978 mi.
5166 ft.

LA BREA AVENUE MOTORS - 401 S. LA BREA PROPERTY **CA ENVIROSTOR** **S111418021**
401 SOUTH LA BREA AVENUE **N/A**
LA BREA, CA 90036

Relative:
Higher

Actual:
207 ft.

ENVIROSTOR:

Facility ID:	60001610
Status:	No Further Action
Status Date:	04/03/2012
Site Code:	301552
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.25
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	50

LA BREA AVENUE MOTORS - 401 S. LA BREA PROPERTY (Continued) **S111418021**

Senate: 26
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.06668
Longitude: -118.3442
APN: NONE SPECIFIED
Past Use: RETAIL - VEHICLES, VEHICLE MAINTENANCE
Potential COC: Tetrachloroethylene (PCE TPH-gas Trichloroethylene (TCE
Confirmed COC: 30022-NO 30025-NO 30027-NO
Potential Description: OTH, SOIL, SV
Alias Name: 301552
Alias Type: Project Code (Site Code)
Alias Name: 60001610
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: 02/10/2012
Comments: DTSC determined FA is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 02/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/03/2012
Comments: DTSC concurs with the conclusion of the SSI Report that further environmental investigation of the Site is not required and approves the Report. DTSC issued No Further Action Determination Letter on April 3, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 04/12/2012
Comments: VCA Termination Letter. NFA determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 04/03/2012
Comments: DTSC issued NFA Determination Letter April 3, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/15/2012
Comments: CRU Closeout Memo

Completed Area Name: PROJECT WIDE

LA BREA AVENUE MOTORS - 401 S. LA BREA PROPERTY (Continued) **S111418021**

Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	12/09/2011
Comments:	VCA executed
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
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)
LOS ANGELES	S105180961	FARMERS MARKET CAR WASH (FORMER)	118 FAIRFAX AVE	90036	CA LUST
LOS ANGELES	S106092350	SALT LAKE PROPERTY	111 S.STANLEY AVE.	90036	CA ENVIROSTOR

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: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/13/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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 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 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 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 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 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 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 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

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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

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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

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: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/13/2017
Next Scheduled EDR Contact: 05/29/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 08/31/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 12/01/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/27/2017
Next Scheduled EDR Contact: 06/12/2017
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

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 45

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 83

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/03/2017
Next Scheduled EDR Contact: 05/29/2017
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: 10/11/2016
Date Data Arrived at EDR: 11/16/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
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: 02/03/2017
Next Scheduled EDR Contact: 05/22/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
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: 02/03/2017
Next Scheduled EDR Contact: 05/22/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
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: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/03/2017
Next Scheduled EDR Contact: 06/12/2017
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: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/11/2016
Date Data Arrived at EDR: 12/20/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 09/02/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/19/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 40

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/16/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/20/2017
Number of Days to Update: 63

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/13/2017
Next Scheduled EDR Contact: 05/29/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/22/2017
Next Scheduled EDR Contact: 06/05/2017
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: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
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: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/15/2017
Next Scheduled EDR Contact: 05/29/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 02/17/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 10/21/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 23

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

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: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/22/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 55

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 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: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/10/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 51

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/14/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 6

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 41

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 17

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 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: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 44

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/06/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/06/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/07/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/06/2017
Next Scheduled EDR Contact: 05/22/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/21/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/14/2017
Number of Days to Update: 49
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/19/2017
Number of Days to Update: 59

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/13/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 76

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/22/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 65
Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55
Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34
Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 82

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/13/2017
Next Scheduled EDR Contact: 05/29/2017
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 42

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/21/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TOWN & COUNTRY RETAIL
6310 W. THIRD STREET
LOS ANGELES, CA 90036

TARGET PROPERTY COORDINATES

Latitude (North):	34.070699 - 34° 4' 14.52''
Longitude (West):	118.360324 - 118° 21' 37.17''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	374473.9
UTM Y (Meters):	3770635.2
Elevation:	180 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630741 HOLLYWOOD, CA
Version Date:	2012
West Map:	5630733 BEVERLY HILLS, 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 principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

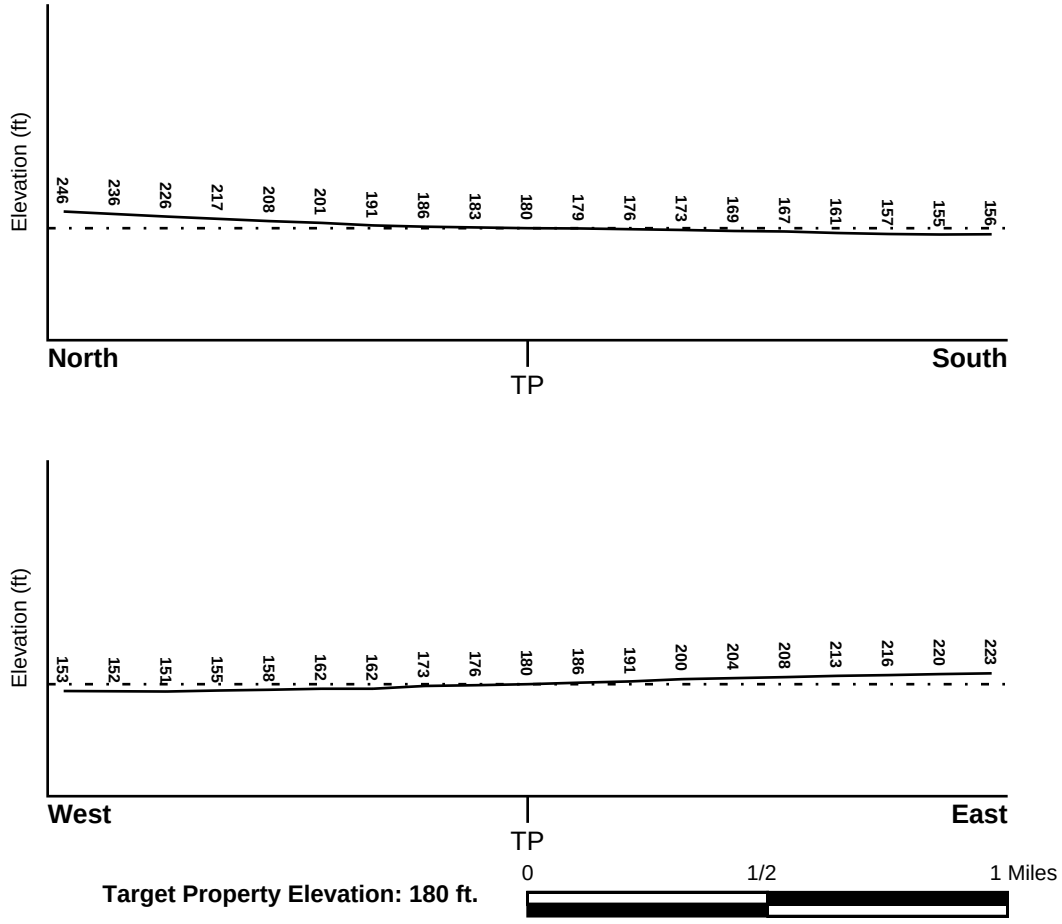
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 180 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1605F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1585F	FEMA FIRM Flood data
06037C1615F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HOLLYWOOD	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
A1	1/2 - 1 Mile WSW	S
A2	1/2 - 1 Mile WSW	S

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

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		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG11000210801	0 - 1/8 Mile West
B2	CAOG11000210800	0 - 1/8 Mile ENE
A3	CAOG11000210332	0 - 1/8 Mile North
B4	CAOG11000210331	0 - 1/8 Mile NE
5	CAOG11000210780	0 - 1/8 Mile South
C6	CAOG11000210333	0 - 1/8 Mile NW
A7	CAOG11000210744	0 - 1/8 Mile WNW
D8	CAOG11000210576	1/8 - 1/4 Mile WSW
E9	CAOG11000210745	1/8 - 1/4 Mile SW
C10	CAOG11000210334	1/8 - 1/4 Mile NW
F11	CAOG11000210330	1/8 - 1/4 Mile ENE
G12	CAOG11000210798	1/8 - 1/4 Mile SE
D13	CAOG11000210590	1/8 - 1/4 Mile West
F14	CAOG11000210799	1/8 - 1/4 Mile East

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H15	CAOG11000210589	1/8 - 1/4 Mile WNW
16	CAOG11000210522	1/8 - 1/4 Mile NNW
E17	CAOG11000210574	1/8 - 1/4 Mile SW
I18	CAOG11000210777	1/8 - 1/4 Mile South
G19	CAOG11000210782	1/8 - 1/4 Mile SSE
E20	CAOG11000210244	1/8 - 1/4 Mile SSW
21	CAOG11000210710	1/8 - 1/4 Mile WSW
F22	CAOG11000210328	1/8 - 1/4 Mile East
H23	CAOG11000210335	1/8 - 1/4 Mile WNW
J24	CAOG11000210797	1/8 - 1/4 Mile ESE
25	CAOG11000210583	1/8 - 1/4 Mile SW
F26	CAOG11000210329	1/8 - 1/4 Mile ENE
H27	CAOG11000210575	1/8 - 1/4 Mile West
J28	CAOG11000210779	1/8 - 1/4 Mile ESE
K29	CAOG11000192175	1/4 - 1/2 Mile NE
K30	CAOG11000192176	1/4 - 1/2 Mile NE
I31	CAOG11000210781	1/4 - 1/2 Mile SSE
K32	CAOG11000192179	1/4 - 1/2 Mile NE
K33	CAOG11000192174	1/4 - 1/2 Mile NE
K34	CAOG11000192178	1/4 - 1/2 Mile NE
K35	CAOG11000189006	1/4 - 1/2 Mile NE
K36	CAOG11000192172	1/4 - 1/2 Mile NE
K37	CAOG11000192177	1/4 - 1/2 Mile NE
K38	CAOG11000214636	1/4 - 1/2 Mile NE
K39	CAOG11000192181	1/4 - 1/2 Mile NE
K40	CAOG11000192180	1/4 - 1/2 Mile NE
K41	CAOG11000188558	1/4 - 1/2 Mile NE
K42	CAOG11000214637	1/4 - 1/2 Mile NE
K43	CAOG11000192993	1/4 - 1/2 Mile NE
K44	CAOG11000192188	1/4 - 1/2 Mile NE
L45	CAOG11000210769	1/4 - 1/2 Mile SSE
K46	CAOG11000193039	1/4 - 1/2 Mile NE
K47	CAOG11000193040	1/4 - 1/2 Mile NE
K48	CAOG11000214223	1/4 - 1/2 Mile NE
K49	CAOG11000193024	1/4 - 1/2 Mile NE
K50	CAOG11000192184	1/4 - 1/2 Mile NE
K51	CAOG11000214224	1/4 - 1/2 Mile NE
K52	CAOG11000193256	1/4 - 1/2 Mile NE
K53	CAOG11000192187	1/4 - 1/2 Mile NE
K54	CAOG11000193262	1/4 - 1/2 Mile NE
M55	CAOG11000210523	1/4 - 1/2 Mile WNW
M56	CAOG11000210521	1/4 - 1/2 Mile NW
K57	CAOG11000193259	1/4 - 1/2 Mile NE
I58	CAOG11000210787	1/4 - 1/2 Mile South
K59	CAOG11000192183	1/4 - 1/2 Mile NE
K60	CAOG11000193149	1/4 - 1/2 Mile NE
K61	CAOG11000193150	1/4 - 1/2 Mile NE
K62	CAOG11000189038	1/4 - 1/2 Mile NE
K63	CAOG11000193277	1/4 - 1/2 Mile NE
K64	CAOG11000193158	1/4 - 1/2 Mile NE
K65	CAOG11000192173	1/4 - 1/2 Mile NE
K66	CAOG11000193157	1/4 - 1/2 Mile NE
K67	CAOG11000193272	1/4 - 1/2 Mile NE
K68	CAOG11000192185	1/4 - 1/2 Mile NE
K69	CAOG11000193178	1/4 - 1/2 Mile NE
K70	CAOG11000192186	1/4 - 1/2 Mile NE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K71	CAOG11000193071	1/4 - 1/2 Mile NE
K73	CAOG11000193084	1/4 - 1/2 Mile NE
K72	CAOG11000193083	1/4 - 1/2 Mile NE
K74	CAOG11000193086	1/4 - 1/2 Mile NE
K75	CAOG11000192182	1/4 - 1/2 Mile NE
76	CAOG11000210579	1/4 - 1/2 Mile SSW
K77	CAOG11000193106	1/4 - 1/2 Mile NE
K78	CAOG11000193135	1/4 - 1/2 Mile NE
J79	CAOG11000210796	1/4 - 1/2 Mile East
L80	CAOG11000210794	1/4 - 1/2 Mile SE
J81	CAOG11000210795	1/4 - 1/2 Mile ESE
N82	CAOG11000210711	1/4 - 1/2 Mile WNW
83	CAOG11000210709	1/4 - 1/2 Mile SW
O84	CAOG11000210322	1/4 - 1/2 Mile East
P85	CAOG11000210712	1/4 - 1/2 Mile WSW
N86	CAOG11000210717	1/4 - 1/2 Mile West
87	CAOG11000210775	1/4 - 1/2 Mile South
O88	CAOG11000210323	1/4 - 1/2 Mile ENE
M89	CAOG11000210520	1/4 - 1/2 Mile WNW
P90	CAOG11000210713	1/4 - 1/2 Mile WSW
L91	CAOG11000210785	1/4 - 1/2 Mile SE
Q92	CAOG11000210784	1/4 - 1/2 Mile SE
R93	CAOG11000210524	1/4 - 1/2 Mile ENE
R94	CAOG11000210324	1/4 - 1/2 Mile ENE
95	CAOG11000210767	1/4 - 1/2 Mile ESE
P96	CAOG11000210716	1/4 - 1/2 Mile West
O97	CAOG11000210314	1/4 - 1/2 Mile East
O98	CAOG11000210315	1/4 - 1/2 Mile East
S99	CAOG11000210718	1/4 - 1/2 Mile WNW
Q100	CAOG11000210762	1/4 - 1/2 Mile SE
T101	CAOG11000210325	1/4 - 1/2 Mile NE
102	CAOG11000210773	1/4 - 1/2 Mile South
U103	CAOG11000210783	1/4 - 1/2 Mile SSE
R104	CAOG11000210316	1/4 - 1/2 Mile ENE
105	CAOG11000210636	1/4 - 1/2 Mile NNE
U106	CAOG11000210770	1/4 - 1/2 Mile SE
107	CAOG11000210714	1/4 - 1/2 Mile SW
Q108	CAOG11000210359	1/4 - 1/2 Mile SE
S109	CAOG11000210581	1/4 - 1/2 Mile West
R110	CAOG11000210317	1/4 - 1/2 Mile ENE
T111	CAOG11000210326	1/4 - 1/2 Mile NE
112	CAOG11000210720	1/4 - 1/2 Mile WSW
V113	CAOG11000210771	1/4 - 1/2 Mile East
V114	CAOG11000210527	1/4 - 1/2 Mile East
W115	CAOG11000210528	1/4 - 1/2 Mile East
X116	CAOG11000210776	1/4 - 1/2 Mile SE
X117	CAOG11000210357	1/4 - 1/2 Mile SE
W118	CAOG11000210529	1/4 - 1/2 Mile ENE
T119	CAOG11000210318	1/4 - 1/2 Mile ENE
Y120	CAOG11000210530	1/4 - 1/2 Mile ENE
S121	CAOG11000210719	1/4 - 1/2 Mile West
Y122	CAOG11000210531	1/4 - 1/2 Mile ENE
Z123	CAOG11000210327	1/4 - 1/2 Mile NE
T124	CAOG11000210319	1/4 - 1/2 Mile NE
125	CAOG11000210721	1/4 - 1/2 Mile WSW
126	CAOG11000210793	1/4 - 1/2 Mile ESE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
X127	CAOG11000210756	1/4 - 1/2 Mile ESE
X128	CAOG11000210778	1/4 - 1/2 Mile SE
AA129	CAOG11000210533	1/4 - 1/2 Mile ENE
W130	CAOG11000210547	1/4 - 1/2 Mile East
Z131	CAOG11000210320	1/4 - 1/2 Mile NE
AB132	CAOG11000210356	1/4 - 1/2 Mile ESE
X133	CAOG11000210354	1/4 - 1/2 Mile SE
AB134	CAOG11000210761	1/4 - 1/2 Mile ESE
AA135	CAOG11000210534	1/4 - 1/2 Mile ENE
136	CAOG11000210366	1/2 - 1 Mile WNW
AB137	CAOG11000210763	1/2 - 1 Mile ESE
Z138	CAOG11000210321	1/2 - 1 Mile NE
AB139	CAOG11000210760	1/2 - 1 Mile SE
140	CAOG11000210586	1/2 - 1 Mile South
AC141	CAOG11000210539	1/2 - 1 Mile NE
142	CAOG11000210722	1/2 - 1 Mile West
AB143	CAOG11000210747	1/2 - 1 Mile SE
AD144	CAOG11000210772	1/2 - 1 Mile East
AE145	CAOG11000210751	1/2 - 1 Mile ESE
146	CAOG11000210723	1/2 - 1 Mile WSW
AB147	CAOG11000210516	1/2 - 1 Mile SE
AD148	CAOG11000210525	1/2 - 1 Mile East
AD149	CAOG11000210526	1/2 - 1 Mile East
AF150	CAOG11000210537	1/2 - 1 Mile East
AC151	CAOG11000210541	1/2 - 1 Mile NE
AF152	CAOG11000210536	1/2 - 1 Mile East
AG153	CAOG11000210353	1/2 - 1 Mile SE
AH154	CAOG11000210535	1/2 - 1 Mile ENE
AE155	CAOG11000210764	1/2 - 1 Mile ESE
AI156	CAOG11000210748	1/2 - 1 Mile ESE
157	CAOG11000210715	1/2 - 1 Mile SSW
AC158	CAOG11000210543	1/2 - 1 Mile NE
AH159	CAOG11000210538	1/2 - 1 Mile ENE
AG160	CAOG11000210754	1/2 - 1 Mile SE
AI161	CAOG11000210352	1/2 - 1 Mile ESE
AJ162	CAOG11000210665	1/2 - 1 Mile NE
AF163	CAOG11000210552	1/2 - 1 Mile East
AK164	CAOG11000210519	1/2 - 1 Mile NW
AD165	CAOG11000210551	1/2 - 1 Mile East
AF166	CAOG11000210554	1/2 - 1 Mile East
AG167	CAOG11000210752	1/2 - 1 Mile SE
168	CAOG11000210724	1/2 - 1 Mile WSW
AG169	CAOG11000210517	1/2 - 1 Mile SE
AL170	CAOG11000210540	1/2 - 1 Mile ENE
AC171	CAOG11000210545	1/2 - 1 Mile NE
AM172	CAOG11000210725	1/2 - 1 Mile West
AH173	CAOG11000210557	1/2 - 1 Mile ENE
AE174	CAOG11000210749	1/2 - 1 Mile ESE
AE175	CAOG11000210792	1/2 - 1 Mile ESE
AK176	CAOG11000210336	1/2 - 1 Mile NW
AI177	CAOG11000210750	1/2 - 1 Mile ESE
AG178	CAOG11000210351	1/2 - 1 Mile SE
AH179	CAOG11000210565	1/2 - 1 Mile ENE
AF180	CAOG11000210555	1/2 - 1 Mile East
AL181	CAOG11000210542	1/2 - 1 Mile ENE
AN182	CAOG11000210546	1/2 - 1 Mile NE

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AO183	CAOG11000210553	1/2 - 1 Mile East
AO184	CAOG11000210550	1/2 - 1 Mile East
AM185	CAOG11000210308	1/2 - 1 Mile WNW
AJ186	CAOG11000210670	1/2 - 1 Mile NE
AI187	CAOG11000210765	1/2 - 1 Mile ESE
AL188	CAOG11000210566	1/2 - 1 Mile ENE
AP189	CAOG11000216606	1/2 - 1 Mile West
AP190	CAOG11000210727	1/2 - 1 Mile West
191	CAOG11000205260	1/2 - 1 Mile South
AP192	CAOG11000210728	1/2 - 1 Mile West
AQ193	CAOG11000210726	1/2 - 1 Mile West
AR194	CAOG11000210358	1/2 - 1 Mile ESE
AS195	CAOG11000210758	1/2 - 1 Mile SE
AT196	CAOG11000210371	1/2 - 1 Mile SSE
AN197	CAOG11000210544	1/2 - 1 Mile NE
AJ198	CAOG11000210707	1/2 - 1 Mile NE
AR199	CAOG11000210514	1/2 - 1 Mile SE
AS200	CAOG11000210513	1/2 - 1 Mile SE
AU201	CAOG11000210559	1/2 - 1 Mile East
AP202	CAOG11000210729	1/2 - 1 Mile WSW
AV203	CAOG11000210774	1/2 - 1 Mile East
AN204	CAOG11000210675	1/2 - 1 Mile NE
AR205	CAOG11000210757	1/2 - 1 Mile ESE
AU206	CAOG11000210567	1/2 - 1 Mile ENE
AO207	CAOG11000210549	1/2 - 1 Mile East
AM208	CAOG11000210734	1/2 - 1 Mile West
AW209	CAOG11000210568	1/2 - 1 Mile ENE
AO210	CAOG11000210570	1/2 - 1 Mile East
211	CAOG11000204851	1/2 - 1 Mile North
AR212	CAOG11000210755	1/2 - 1 Mile ESE
213	CAOG11000210705	1/2 - 1 Mile NE
AP214	CAOG11000210731	1/2 - 1 Mile West
AQ215	CAOG11000210732	1/2 - 1 Mile West
AT216	CAOG11000210370	1/2 - 1 Mile SSE
AX217	CAOG11000210753	1/2 - 1 Mile SE
AY218	CAOG11000210307	1/2 - 1 Mile WNW
AW219	CAOG11000210569	1/2 - 1 Mile ENE
AQ220	CAOG11000210733	1/2 - 1 Mile West
AZ221	CAOG11000210572	1/2 - 1 Mile NE
AZ222	CAOG11000210686	1/2 - 1 Mile NE
BA223	CAOG11000210556	1/2 - 1 Mile East
224	CAOG11000210766	1/2 - 1 Mile ESE
AX225	CAOG11000210515	1/2 - 1 Mile SE
AU226	CAOG11000210558	1/2 - 1 Mile East
AV227	CAOG11000210548	1/2 - 1 Mile East
AU228	CAOG11000210560	1/2 - 1 Mile East
AX229	CAOG11000210759	1/2 - 1 Mile ESE
AW230	CAOG11000210561	1/2 - 1 Mile ENE
AY231	CAOG11000210735	1/2 - 1 Mile West
BB232	CAOG11000210790	1/2 - 1 Mile ESE
AW233	CAOG11000210562	1/2 - 1 Mile ENE
234	CAOG11000210313	1/2 - 1 Mile WNW
BA235	CAOG11000210640	1/2 - 1 Mile East
236	CAOG11000210369	1/2 - 1 Mile SSE
BA237	CAOG11000210641	1/2 - 1 Mile East
BC238	CAOG11000210642	1/2 - 1 Mile East

STATE OIL/GAS WELL INFORMATION

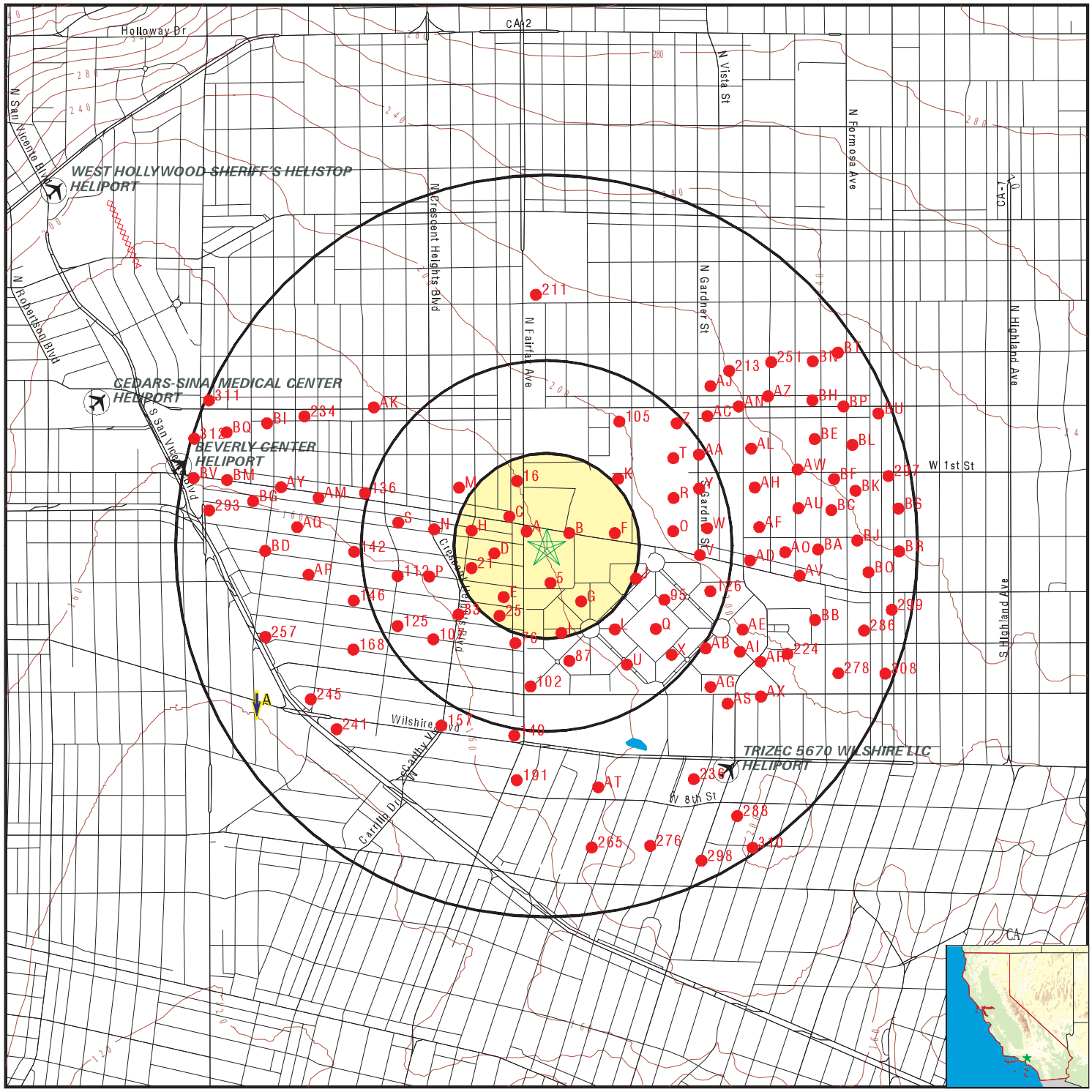
MAP ID	WELL ID	LOCATION FROM TP
BD239	CAOG11000210737	1/2 - 1 Mile West
BD240	CAOG11000210736	1/2 - 1 Mile West
241	CAOG11000205317	1/2 - 1 Mile SW
BC242	CAOG11000210643	1/2 - 1 Mile East
AZ243	CAOG11000210689	1/2 - 1 Mile ENE
BE244	CAOG11000210563	1/2 - 1 Mile ENE
245	CAOG11000210730	1/2 - 1 Mile WSW
BB246	CAOG11000210791	1/2 - 1 Mile ESE
BF247	CAOG11000210644	1/2 - 1 Mile ENE
AY248	CAOG11000210305	1/2 - 1 Mile WNW
BE249	CAOG11000210564	1/2 - 1 Mile ENE
BE250	CAOG11000210647	1/2 - 1 Mile ENE
251	CAOG11000210706	1/2 - 1 Mile NE
BC252	CAOG11000210639	1/2 - 1 Mile East
BD253	CAOG11000210741	1/2 - 1 Mile West
BG254	CAOG11000210738	1/2 - 1 Mile West
BH255	CAOG11000210688	1/2 - 1 Mile ENE
BF256	CAOG11000210677	1/2 - 1 Mile ENE
257	CAOG11000210251	1/2 - 1 Mile WSW
BE258	CAOG11000210678	1/2 - 1 Mile ENE
BI259	CAOG11000210312	1/2 - 1 Mile WNW
BJ260	CAOG11000210656	1/2 - 1 Mile East
BG261	CAOG11000210739	1/2 - 1 Mile West
BC262	CAOG11000210650	1/2 - 1 Mile East
BK263	CAOG11000210649	1/2 - 1 Mile East
BH264	CAOG11000210687	1/2 - 1 Mile ENE
265	CAOG11000210372	1/2 - 1 Mile South
BF266	CAOG11000210646	1/2 - 1 Mile ENE
BH267	CAOG11000210691	1/2 - 1 Mile ENE
BL268	CAOG11000210645	1/2 - 1 Mile ENE
BM269	CAOG11000210304	1/2 - 1 Mile WNW
BI270	CAOG11000210303	1/2 - 1 Mile WNW
BJ271	CAOG11000210807	1/2 - 1 Mile East
BJ272	CAOG11000210804	1/2 - 1 Mile East
BJ273	CAOG11000210815	1/2 - 1 Mile East
BN274	CAOG11000210704	1/2 - 1 Mile NE
BO275	CAOG11000210802	1/2 - 1 Mile East
276	CAOG11000210368	1/2 - 1 Mile SSE
BK277	CAOG11000210468	1/2 - 1 Mile East
278	CAOG11000210768	1/2 - 1 Mile ESE
BL279	CAOG11000210648	1/2 - 1 Mile ENE
BP280	CAOG11000210692	1/2 - 1 Mile ENE
BK281	CAOG11000210476	1/2 - 1 Mile ENE
BP282	CAOG11000210693	1/2 - 1 Mile ENE
BL283	CAOG11000210484	1/2 - 1 Mile ENE
BQ284	CAOG11000210311	1/2 - 1 Mile WNW
BM285	CAOG11000210740	1/2 - 1 Mile West
286	CAOG11000210788	1/2 - 1 Mile ESE
BO287	CAOG11000210805	1/2 - 1 Mile East
288	CAOG11000210638	1/2 - 1 Mile SE
BN289	CAOG11000210708	1/2 - 1 Mile NE
BL290	CAOG11000210493	1/2 - 1 Mile ENE
BP291	CAOG11000210501	1/2 - 1 Mile ENE
BM292	CAOG11000215204	1/2 - 1 Mile WNW
293	CAOG11000210742	1/2 - 1 Mile West
BR294	CAOG11000210806	1/2 - 1 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
BS295	CAOG11000210816	1/2 - 1 Mile East
BT296	CAOG11000210698	1/2 - 1 Mile ENE
297	CAOG11000210477	1/2 - 1 Mile ENE
298	CAOG11000210365	1/2 - 1 Mile SSE
299	CAOG11000210786	1/2 - 1 Mile East
BQ300	CAOG11000210306	1/2 - 1 Mile WNW
BT301	CAOG11000210703	1/2 - 1 Mile NE
BU302	CAOG11000210502	1/2 - 1 Mile ENE
BU303	CAOG11000210701	1/2 - 1 Mile ENE
BV304	CAOG11000210289	1/2 - 1 Mile WNW
BU305	CAOG11000210494	1/2 - 1 Mile ENE
BV306	CAOG11000210743	1/2 - 1 Mile West
BR307	CAOG11000210808	1/2 - 1 Mile East
308	CAOG11000210789	1/2 - 1 Mile ESE
BS309	CAOG11000210469	1/2 - 1 Mile East
310	CAOG11000210364	1/2 - 1 Mile SE
311	CAOG11000210309	1/2 - 1 Mile WNW
312	CAOG11000210291	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 4930273.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Town & Country Retail	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	6310 W. Third Street Los Angeles CA 90036	CONTACT:	Janet Holtz
LAT/LONG:	34.070699 / 118.360324	INQUIRY #:	4930273.2s
		DATE:	May 08, 2017 2:42 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	I-16144 S Not Reported Not Reported 40 06/24/1991	**AQUIFLOW**	**38095**
A2 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	I-16144 S Not Reported Not Reported 40 06/24/1991	**AQUIFLOW**	**38094**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A1
West
0 - 1/8 Mile

OIL_GAS **CAOG11000210801**

District nun:	1	Api number:	03715230
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	102
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210801		

B2
ENE
0 - 1/8 Mile

OIL_GAS **CAOG11000210800**

District nun:	1	Api number:	03715229
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	99
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210800		

A3
North
0 - 1/8 Mile

OIL_GAS **CAOG11000210332**

District nun:	1	Api number:	03714646
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210332		

B4
NE **OIL_GAS** **CAOG11000210331**
0 - 1/8 Mile

District nun:	1	Api number:	03714645
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210331		

5
South **OIL_GAS** **CAOG11000210780**
0 - 1/8 Mile

District nun:	1	Api number:	03715209
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	34
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210780		

C6
NW
0 - 1/8 Mile

OIL_GAS **CAOG11000210333**

District nun:	1	Api number:	03714647
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210333		

A7
WNW
0 - 1/8 Mile

OIL_GAS **CAOG11000210744**

District nun:	1	Api number:	03715173
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	140
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210744		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

D8
WSW **OIL_GAS** **CAOG11000210576**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714960
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210576		

E9
SW **OIL_GAS** **CAOG11000210745**
1/8 - 1/4 Mile

District nun:	1	Api number:	03715174
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	142
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210745		

C10
NW **OIL_GAS** **CAOG11000210334**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714648
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	47
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210334		

F11
ENE **OIL_GAS** **CAOG11000210330**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714644
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210330		

G12
SE **OIL_GAS** **CAOG11000210798**
1/8 - 1/4 Mile

District nun:	1	Api number:	03715227
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	90
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210798		

D13
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210590**

District nun:	1	Api number:	03714975
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210590		

F14
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210799**

District nun:	1	Api number:	03715228
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	93
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210799		

Map ID
Direction
Distance

Database EDR ID Number

H15
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210589**

District nun:	1	Api number:	03714974
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210589		

16
NNW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210522**

District nun:	1	Api number:	03714906
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	James F. Ross		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ross	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210522		

E17
SW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210574**

District nun:	1	Api number:	03714958
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210574		

I18
South **OIL_GAS** **CAOG11000210777**
1/8 - 1/4 Mile

District nun:	1	Api number:	03715206
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	31
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210777		

G19
SSE **OIL_GAS** **CAOG11000210782**
1/8 - 1/4 Mile

District nun:	1	Api number:	03715211
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210782		

E20
SSW **OIL_GAS** **CAOG11000210244**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714541
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Arcturus	Wellnumber:	201
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210244		

21
WSW **OIL_GAS** **CAOG11000210710**
1/8 - 1/4 Mile

District nun:	1	Api number:	03715139
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210710		

Map ID
Direction
Distance

Database EDR ID Number

F22
East
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210328**

District nun:	1	Api number:	03714642
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210328		

H23
WNW
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210335**

District nun:	1	Api number:	03714649
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210335		

J24
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210797**

District nun:	1	Api number:	03715226
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	88
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210797		

25
SW **OIL_GAS** **CAOG11000210583**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714967
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210583		

F26
ENE **OIL_GAS** **CAOG11000210329**
1/8 - 1/4 Mile

District nun:	1	Api number:	03714643
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210329		

H27
West
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210575**

District nun:	1	Api number:	03714959
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210575		

J28
ESE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000210779**

District nun:	1	Api number:	03715208
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210779		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

K29
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192175**

District nun:	1	Api number:	03715050
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.731
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192175		

K30
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192176**

District nun:	1	Api number:	03715051
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.993
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192176		

I31
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210781**

District nun:	1	Api number:	03715210
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	36
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210781		

K32
NE **OIL_GAS** **CAOG11000192179**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715054
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.006
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192179		

K33
NE **OIL_GAS** **CAOG11000192174**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715049
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	201.708
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192174		

K34
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192178**

District nun:	1	Api number:	03715053
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.089
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192178		

K35
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000189006**

District nun:	1	Api number:	03702077
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.196
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000189006		

Map ID
Direction
Distance

Database EDR ID Number

K36
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192172**

District nun:	1	Api number:	03715047
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.932
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192172		

K37
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192177**

District nun:	1	Api number:	03715052
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.679
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192177		

K38
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000214636**

District nun:	1	Api number:	03721193
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	U-168	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000214636		

K39
NE **OIL_GAS** **CAOG11000192181**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715129
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.315
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192181		

K40
NE **OIL_GAS** **CAOG11000192180**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715055
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.656
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192180		

K41
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000188558**

District nun:	1	Api number:	03700024
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.643
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000188558		

K42
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000214637**

District nun:	1	Api number:	03721194
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	U-168	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000214637		

Map ID
Direction
Distance

Database EDR ID Number

K43
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192993**

District nun:	1	Api number:	03720017
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.228
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192993		

K44
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192188**

District nun:	1	Api number:	03715136
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	195.474
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192188		

L45
SSE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210769**

District nun:	1	Api number:	03715198
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210769		

K46
NE **OIL_GAS** **CAOG11000193039**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720149
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.347
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWD
Site id:	CAOG11000193039		

K47
NE **OIL_GAS** **CAOG11000193040**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720149
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.347
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWD
Site id:	CAOG11000193040		

K48
NE **OIL_GAS** **CAOG11000214223**
1/4 - 1/2 Mile

District nun:	1	Api number:	03721227
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	U-168	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000214223		

K49
NE **OIL_GAS** **CAOG11000193024**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720119
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.284
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193024		

Map ID
Direction
Distance

Database EDR ID Number

K50
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192184**

District nun:	1	Api number:	03715132
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	196.958
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192184		

K51
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000214224**

District nun:	1	Api number:	03721228
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	U-169	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000214224		

K52
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193256**

District nun:	1	Api number:	03721090
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.855
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193256		

K53
NE **OIL_GAS** **CAOG11000192187**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715135
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.101
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192187		

K54
NE **OIL_GAS** **CAOG11000193262**
1/4 - 1/2 Mile

District nun:	1	Api number:	03721100
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.607
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193262		

M55
WNW **OIL_GAS** **CAOG11000210523**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714907
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	James F. Ross		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ross	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210523		

M56
NW **OIL_GAS** **CAOG11000210521**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714905
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	James F. Ross		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Ross	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210521		

Map ID
Direction
Distance

Database EDR ID Number

K57
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193259**

District nun:	1	Api number:	03721094
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.983
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193259		

I58
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210787**

District nun:	1	Api number:	03715216
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	42
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210787		

K59
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192183**

District nun:	1	Api number:	03715131
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.789
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192183		

K60
NE **OIL_GAS** **CAOG11000193149**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720577
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	199.691
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193149		

K61
NE **OIL_GAS** **CAOG11000193150**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720607
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.373
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193150		

K62
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000189038**

District nun:	1	Api number:	03702957
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	196.23
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000189038		

K63
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193277**

District nun:	1	Api number:	03721131
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.189
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193277		

Map ID
Direction
Distance

Database EDR ID Number

K64
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193158**

District nun:	1	Api number:	03720662
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	201.391
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000193158		

K65
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192173**

District nun:	1	Api number:	03715048
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	201.429
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Metropolitan	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192173		

K66
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193157**

District nun:	1	Api number:	03720647
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.299
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193157		

K67
NE **OIL_GAS** **CAOG11000193272**
1/4 - 1/2 Mile

District nun:	1	Api number:	03721119
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	196.429
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193272		

K68
NE **OIL_GAS** **CAOG11000192185**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715133
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.163
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192185		

K69
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193178**

District nun:	1	Api number:	03720826
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.09
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Oakwood	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193178		

K70
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000192186**

District nun:	1	Api number:	03715134
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.928
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000192186		

Map ID
Direction
Distance

Database EDR ID Number

K71
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193071**

District nun:	1	Api number:	03720251
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.427
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193071		

K73
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193084**

District nun:	1	Api number:	03720314
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.339
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWD
Site id:	CAOG11000193084		

K72
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193083**

District nun:	1	Api number:	03720314
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.339
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWD
Site id:	CAOG11000193083		

K74
NE **OIL_GAS** **CAOG11000193086**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720354
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	197.946
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	U-93	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193086		

K75
NE **OIL_GAS** **CAOG11000192182**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715130
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	198.414
Locationde:	Not Reported		
Gissourcec:	gps		

Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000192182		

76
SSW **OIL_GAS** **CAOG11000210579**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714963
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210579		

K77
NE **OIL_GAS** **CAOG11000193106**
1/4 - 1/2 Mile

District nun:	1	Api number:	03720388
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	200.872
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000193106		

Map ID
Direction
Distance

Database EDR ID Number

K78
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000193135**

District nun:	1	Api number:	03720509
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	McFarland Energy, Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	206.5
Locationde:	Not Reported		
Gissourcec:	gps		
Comments:	64002239.ssf		
Leasename:	Gilmore	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000193135		

J79
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210796**

District nun:	1	Api number:	03715225
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	87
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210796		

L80
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210794**

District nun:	1	Api number:	03715223
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	67
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210794		

J81
ESE **OIL_GAS** **CAOG11000210795**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715224
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	81
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210795		

N82
WNW **OIL_GAS** **CAOG11000210711**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715140
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210711		

83
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210709**

District nun:	1	Api number:	03715138
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	35
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210709		

O84
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210322**

District nun:	1	Api number:	03714636
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210322		

Map ID
Direction
Distance

Database EDR ID Number

P85
WSW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210712**

District nun:	1	Api number:	03715141
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210712		

N86
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210717**

District nun:	1	Api number:	03715146
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	58
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210717		

87
South
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210775**

District nun:	1	Api number:	03715204
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	29
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210775		

O88
ENE **OIL_GAS** **CAOG11000210323**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714637
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210323		

M89
WNW **OIL_GAS** **CAOG11000210520**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714904
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	James F. Ross		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Ross	Wellnumber:	A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210520		

P90
WSW **OIL_GAS** **CAOG11000210713**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715142
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	44
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210713		

L91
SE **OIL_GAS** **CAOG11000210785**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715214
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210785		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Q92
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210784**

District nun:	1	Api number:	03715213
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210784		

R93
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210524**

District nun:	1	Api number:	03714908
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Shell Western Exploration & Production Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Verne Community	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210524		

R94
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210324**

District nun:	1	Api number:	03714638
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210324		

95
ESE **OIL_GAS** **CAOG11000210767**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715196
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210767		

P96
West **OIL_GAS** **CAOG11000210716**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715145
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	57
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210716		

O97
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210314**

District nun:	1	Api number:	03714628
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210314		

O98
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210315**

District nun:	1	Api number:	03714629
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210315		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

S99
WNW **OIL_GAS** **CAOG11000210718**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715147
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	59
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210718		

Q100
SE **OIL_GAS** **CAOG11000210762**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715191
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210762		

T101
NE **OIL_GAS** **CAOG11000210325**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714639
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210325		

102
South **OIL_GAS** **CAOG11000210773**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715202
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210773		

U103
SSE **OIL_GAS** **CAOG11000210783**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715212
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	38
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210783		

R104
ENE **OIL_GAS** **CAOG11000210316**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714630
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210316		

105
NNE **OIL_GAS** **CAOG11000210636**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715056
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Macco Corp.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210636		

Map ID
Direction
Distance

Database EDR ID Number

U106
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210770**

District nun:	1	Api number:	03715199
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210770		

107
SW
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210714**

District nun:	1	Api number:	03715143
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210714		

Q108
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210359**

District nun:	1	Api number:	03714684
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	416
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210359		

S109
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210581**

District nun:	1	Api number:	03714965
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210581		

R110
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210317**

District nun:	1	Api number:	03714631
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210317		

T111
NE **OIL_GAS** **CAOG11000210326**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714640
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210326		

112
WSW **OIL_GAS** **CAOG11000210720**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715149
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210720		

Map ID
Direction
Distance

Database EDR ID Number

V113
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210771**

District nun:	1	Api number:	03715200
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210771		

V114
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210527**

District nun:	1	Api number:	03714911
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210527		

W115
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210528**

District nun:	1	Api number:	03714912
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210528		

X116
SE **OIL_GAS** **CAOG11000210776**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715205
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210776		

X117
SE **OIL_GAS** **CAOG11000210357**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714682
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	413
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210357		

W118
ENE **OIL_GAS** **CAOG11000210529**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714913
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210529		

T119
ENE **OIL_GAS** **CAOG11000210318**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714632
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210318		

Map ID
Direction
Distance

Database EDR ID Number

Y120
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210530**

District nun:	1	Api number:	03714914
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210530		

S121
West
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210719**

District nun:	1	Api number:	03715148
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	60
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210719		

Y122
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210531**

District nun:	1	Api number:	03714915
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210531		

Z123
NE **OIL_GAS** **CAOG11000210327**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714641
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210327		

T124
NE **OIL_GAS** **CAOG11000210319**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714633
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210319		

125
WSW **OIL_GAS** **CAOG11000210721**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715150
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	65
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210721		

126
ESE **OIL_GAS** **CAOG11000210793**
1/4 - 1/2 Mile

District nun:	1	Api number:	03715222
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	61
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210793		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

X127
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210756**

District nun:	1	Api number:	03715185
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210756		

X128
SE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210778**

District nun:	1	Api number:	03715207
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210778		

AA129
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210533**

District nun:	1	Api number:	03714917
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210533		

W130
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210547**

District nun:	1	Api number:	03714931
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	23
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210547		

Z131
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210320**

District nun:	1	Api number:	03714634
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210320		

AB132
ESE **OIL_GAS** **CAOG11000210356**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714681
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	411
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210356		

X133
SE **OIL_GAS** **CAOG11000210354**
1/4 - 1/2 Mile

District nun:	1	Api number:	03714679
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	409
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210354		

Map ID
Direction
Distance

Database EDR ID Number

AB134
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210761**

District nun:	1	Api number:	03715190
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210761		

AA135
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000210534**

District nun:	1	Api number:	03714918
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210534		

136
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210366**

District nun:	1	Api number:	03714691
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Utah California Consolidated Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210366		

AB137
ESE **OIL_GAS** **CAOG11000210763**
1/2 - 1 Mile

District nun:	1	Api number:	03715192
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210763		

Z138
NE **OIL_GAS** **CAOG11000210321**
1/2 - 1 Mile

District nun:	1	Api number:	03714635
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210321		

AB139
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210760**

District nun:	1	Api number:	03715189
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210760		

140
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210586**

District nun:	1	Api number:	03714970
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210586		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AC141
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210539**

District nun:	1	Api number:	03714923
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210539		

142
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210722**

District nun:	1	Api number:	03715151
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	82
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210722		

AB143
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210747**

District nun:	1	Api number:	03715176
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210747		

AD144
East **OIL_GAS** **CAOG11000210772**
1/2 - 1 Mile

District nun:	1	Api number:	03715201
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210772		

AE145
ESE **OIL_GAS** **CAOG11000210751**
1/2 - 1 Mile

District nun:	1	Api number:	03715180
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210751		

146
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210723**

District nun:	1	Api number:	03715152
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	84
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PWF
Site id:	CAOG11000210723		

AB147
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210516**

District nun:	1	Api number:	03714899
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	405
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210516		

Map ID
Direction
Distance

Database EDR ID Number

AD148
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210525**

District nun:	1	Api number:	03714909
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210525		

AD149
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210526**

District nun:	1	Api number:	03714910
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210526		

AF150
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210537**

District nun:	1	Api number:	03714921
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210537		

AC151
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210541**

District nun:	1	Api number:	03714925
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	A
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	17
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210541		

AF152
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210536**

District nun:	1	Api number:	03714920
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210536		

AG153
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210353**

District nun:	1	Api number:	03714678
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	408
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210353		

AH154
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210535**

District nun:	1	Api number:	03714919
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210535		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AE155
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210764**

District nun:	1	Api number:	03715193
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210764		

AI156
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210748**

District nun:	1	Api number:	03715177
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210748		

157
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210715**

District nun:	1	Api number:	03715144
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210715		

AC158
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210543**

District nun:	1	Api number:	03714927
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210543		

AH159
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210538**

District nun:	1	Api number:	03714922
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	14
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210538		

AG160
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210754**

District nun:	1	Api number:	03715183
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210754		

AI161
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210352**

District nun:	1	Api number:	03714677
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	407
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210352		

Map ID
Direction
Distance

Database EDR ID Number

AJ162
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210665**

District nun:	1	Api number:	03715085
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210665		

AF163
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210552**

District nun:	1	Api number:	03714936
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	105
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210552		

AK164
NW
1/2 - 1 Mile

OIL_GAS **CAOG11000210519**

District nun:	1	Api number:	03714903
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	A
Operator name:	James F. Ross		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	82
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210519		

AD165
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210551**

District nun:	1	Api number:	03714935
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	104
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210551		

AF166
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210554**

District nun:	1	Api number:	03714938
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	107
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210554		

AG167
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210752**

District nun:	1	Api number:	03715181
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210752		

168
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210724**

District nun:	1	Api number:	03715153
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	86
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210724		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AG169
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210517**

District nun:	1	Api number:	03714900
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	401
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210517		

AL170
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210540**

District nun:	1	Api number:	03714924
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210540		

AC171
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210545**

District nun:	1	Api number:	03714929
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210545		

AM172
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210725**

District nun:	1	Api number:	03715154
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	99
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210725		

AH173
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210557**

District nun:	1	Api number:	03714941
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	110
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210557		

AE174
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210749**

District nun:	1	Api number:	03715178
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210749		

AE175
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210792**

District nun:	1	Api number:	03715221
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210792		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AK176
NW
1/2 - 1 Mile

OIL_GAS **CAOG11000210336**

District nun:	1	Api number:	03714650
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	A
Operator name:	Gilmore Oil Company		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	17
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	83
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210336		

AI177
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210750**

District nun:	1	Api number:	03715179
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210750		

AG178
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210351**

District nun:	1	Api number:	03714676
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	406
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210351		

AH179
ENE **OIL_GAS** **CAOG11000210565**
1/2 - 1 Mile

District nun:	1	Api number:	03714949
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	118
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210565		

AF180
East **OIL_GAS** **CAOG11000210555**
1/2 - 1 Mile

District nun:	1	Api number:	03714939
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	108
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210555		

AL181
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210542**

District nun:	1	Api number:	03714926
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210542		

AN182
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210546**

District nun:	1	Api number:	03714930
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210546		

Map ID
Direction
Distance

Database EDR ID Number

AO183
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210553**

District nun:	1	Api number:	03714937
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	106
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210553		

AO184
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210550**

District nun:	1	Api number:	03714934
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	103
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210550		

AM185
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210308**

District nun:	1	Api number:	03714622
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210308		

AJ186
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210670**

District nun:	1	Api number:	03715090
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	32
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210670		

AI187
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210765**

District nun:	1	Api number:	03715194
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210765		

AL188
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210566**

District nun:	1	Api number:	03714950
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	119
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210566		

AP189
West
1/2 - 1 Mile

OIL_GAS **CAOG11000216606**

District nun:	1	Api number:	03726469
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	unk		
Comments:	Not Reported		
Leasename:	New	Wellnumber:	103
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000216606		

Map ID
Direction
Distance

Database EDR ID Number

AP190
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210727**

District nun:	1	Api number:	03715156
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	102
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210727		

191
South
1/2 - 1 Mile

OIL_GAS **CAOG11000205260**

District nun:	1	Api number:	03706336
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	29
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Seibu Corehole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205260		

AP192
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210728**

District nun:	1	Api number:	03715157
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	103
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210728		

AQ193
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210726**

District nun:	1	Api number:	03715155
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	101
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210726		

AR194
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210358**

District nun:	1	Api number:	03714683
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	415
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210358		

AS195
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210758**

District nun:	1	Api number:	03715187
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210758		

AT196
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000210371**

District nun:	1	Api number:	03714696
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Wilshire Oil Producers Co.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210371		

Map ID
Direction
Distance

Database EDR ID Number

AN197
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210544**

District nun:	1	Api number:	03714928
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210544		

AJ198
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210707**

District nun:	1	Api number:	03715127
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	69
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210707		

AR199
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210514**

District nun:	1	Api number:	03714897
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	403
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210514		

AS200
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210513**

District nun:	1	Api number:	03714896
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	402
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210513		

AU201
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210559**

District nun:	1	Api number:	03714943
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	112
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210559		

AP202
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210729**

District nun:	1	Api number:	03715158
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	104
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210729		

AV203
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210774**

District nun:	1	Api number:	03715203
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	28
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210774		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AN204
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210675**

District nun:	1	Api number:	03715095
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	37
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210675		

AR205
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210757**

District nun:	1	Api number:	03715186
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210757		

AU206
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210567**

District nun:	1	Api number:	03714951
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	120
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210567		

AO207
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210549**

District nun:	1	Api number:	03714933
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	102
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210549		

AM208
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210734**

District nun:	1	Api number:	03715163
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	117
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210734		

AW209
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210568**

District nun:	1	Api number:	03714952
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	121
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210568		

AO210
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210570**

District nun:	1	Api number:	03714954
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	123
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210570		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

211
North
1/2 - 1 Mile

OIL_GAS **CAOG11000204851**

District nun:	1	Api number:	03705693
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Fairfax High School Corehole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204851		

AR212
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210755**

District nun:	1	Api number:	03715184
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210755		

213
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210705**

District nun:	1	Api number:	03715125
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	67
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210705		

AP214
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210731**

District nun:	1	Api number:	03715160
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	114
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210731		

AQ215
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210732**

District nun:	1	Api number:	03715161
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	115
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210732		

AT216
SSE **OIL_GAS** **CAOG11000210370**
1/2 - 1 Mile

District nun:	1	Api number:	03714695
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Wilshire Oil Producers Co.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000210370		

AX217
SE **OIL_GAS** **CAOG11000210753**
1/2 - 1 Mile

District nun:	1	Api number:	03715182
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210753		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AY218
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210307**

District nun:	1	Api number:	03714621
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210307		

AW219
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210569**

District nun:	1	Api number:	03714953
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	122
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210569		

AQ220
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210733**

District nun:	1	Api number:	03715162
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	116
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210733		

AZ221
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210572**

District nun:	1	Api number:	03714956
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Yavneh Corehole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210572		

AZ222
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210686**

District nun:	1	Api number:	03715106
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	48
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210686		

BA223
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210556**

District nun:	1	Api number:	03714940
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	109
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210556		

224
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210766**

District nun:	1	Api number:	03715195
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	20
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210766		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

AX225
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210515**

District nun:	1	Api number:	03714898
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	404
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210515		

AU226
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210558**

District nun:	1	Api number:	03714942
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	111
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210558		

AV227
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210548**

District nun:	1	Api number:	03714932
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	101
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210548		

AU228
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210560**

District nun:	1	Api number:	03714944
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	113
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210560		

AX229
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210759**

District nun:	1	Api number:	03715188
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	13
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210759		

AW230
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210561**

District nun:	1	Api number:	03714945
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	114
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210561		

AY231
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210735**

District nun:	1	Api number:	03715164
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	118
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210735		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BB232
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210790**

District nun:	1	Api number:	03715219
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	50
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210790		

AW233
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210562**

District nun:	1	Api number:	03714946
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	115
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210562		

234
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210313**

District nun:	1	Api number:	03714627
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210313		

BA235
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210640**

District nun:	1	Api number:	03715060
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210640		

236
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000210369**

District nun:	1	Api number:	03714694
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Utah California Consolidated Co.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	101
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210369		

BA237
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210641**

District nun:	1	Api number:	03715061
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210641		

BC238
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210642**

District nun:	1	Api number:	03715062
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210642		

Map ID
Direction
Distance

Database EDR ID Number

BD239
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210737**

District nun:	1	Api number:	03715166
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	121
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210737		

BD240
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210736**

District nun:	1	Api number:	03715165
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	120
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210736		

241
SW
1/2 - 1 Mile

OIL_GAS **CAOG11000205317**

District nun:	1	Api number:	03706478
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Tower Corehole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205317		

BC242
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210643**

District nun:	1	Api number:	03715063
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210643		

AZ243
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210689**

District nun:	1	Api number:	03715109
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	51
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210689		

BE244
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210563**

District nun:	1	Api number:	03714947
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	116
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210563		

245
WSW
1/2 - 1 Mile

OIL_GAS **CAOG11000210730**

District nun:	1	Api number:	03715159
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	108
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210730		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BB246
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210791**

District nun:	1	Api number:	03715220
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	51
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210791		

BF247
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210644**

District nun:	1	Api number:	03715064
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210644		

AY248
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210305**

District nun:	1	Api number:	03714619
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210305		

BE249
ENE **OIL_GAS** **CAOG11000210564**
1/2 - 1 Mile

District nun:	1	Api number:	03714948
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Southern California Edison Co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Clark	Wellnumber:	117
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210564		

BE250
ENE **OIL_GAS** **CAOG11000210647**
1/2 - 1 Mile

District nun:	1	Api number:	03715067
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	9
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210647		

251
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210706**

District nun:	1	Api number:	03715126
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	68
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210706		

BC252
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210639**

District nun:	1	Api number:	03715059
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210639		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BD253
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210741**

District nun:	1	Api number:	03715170
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	136
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210741		

BG254
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210738**

District nun:	1	Api number:	03715167
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	130
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210738		

BH255
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210688**

District nun:	1	Api number:	03715108
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	15
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	50
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210688		

BF256
ENE **OIL_GAS** **CAOG11000210677**
1/2 - 1 Mile

District nun:	1	Api number:	03715097
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	39
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210677		

257
WSW **OIL_GAS** **CAOG11000210251**
1/2 - 1 Mile

District nun:	1	Api number:	03714549
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Rodeo	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210251		

BE258
ENE **OIL_GAS** **CAOG11000210678**
1/2 - 1 Mile

District nun:	1	Api number:	03715098
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	40
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210678		

BI259
WNW **OIL_GAS** **CAOG11000210312**
1/2 - 1 Mile

District nun:	1	Api number:	03714626
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210312		

Map ID
Direction
Distance

Database EDR ID Number

BJ260
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210656**

District nun:	1	Api number:	03715076
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	18
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210656		

BG261
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210739**

District nun:	1	Api number:	03715168
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	131
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210739		

BC262
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210650**

District nun:	1	Api number:	03715070
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	12
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210650		

BK263
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210649**

District nun:	1	Api number:	03715069
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	11
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210649		

BH264
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210687**

District nun:	1	Api number:	03715107
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	49
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210687		

265
South
1/2 - 1 Mile

OIL_GAS **CAOG11000210372**

District nun:	1	Api number:	03714697
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Wilshire Oil Producers Co.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210372		

BF266
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210646**

District nun:	1	Api number:	03715066
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210646		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BH267
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210691**

District nun:	1	Api number:	03715111
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	53
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210691		

BL268
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210645**

District nun:	1	Api number:	03715065
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210645		

BM269
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210304**

District nun:	1	Api number:	03714618
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	A
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210304		

BI270
WNW **OIL_GAS** **CAOG11000210303**
1/2 - 1 Mile

District nun:	1	Api number:	03714617
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	APM
Site id:	CAOG11000210303		

BJ271
East **OIL_GAS** **CAOG11000210807**
1/2 - 1 Mile

District nun:	1	Api number:	03715236
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	235
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210807		

BJ272
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210804**

District nun:	1	Api number:	03715233
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	217
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210804		

BJ273
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210815**

District nun:	1	Api number:	03715244
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	252
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210815		

Map ID
Direction
Distance

Database EDR ID Number

BN274
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210704**

District nun:	1	Api number:	03715124
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	66
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210704		

BO275
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210802**

District nun:	1	Api number:	03715231
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	200
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210802		

276
SSE
1/2 - 1 Mile

OIL_GAS **CAOG11000210368**

District nun:	1	Api number:	03714693
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Utah California Consolidated Co.		
County name:	Los Angeles	Fieldname:	Salt Lake, South
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Lease 2	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210368		

BK277
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210468**

District nun:	1	Api number:	03714851
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	270
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210468		

278
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210768**

District nun:	1	Api number:	03715197
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	22
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210768		

BL279
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210648**

District nun:	1	Api number:	03715068
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210648		

BP280
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210692**

District nun:	1	Api number:	03715112
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	54
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210692		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BK281
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210476**

District nun:	1	Api number:	03714859
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	287
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210476		

BP282
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210693**

District nun:	1	Api number:	03715113
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	55
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210693		

BL283
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210484**

District nun:	1	Api number:	03714867
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	305
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210484		

BQ284
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210311**

District nun:	1	Api number:	03714625
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	10
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210311		

BM285
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210740**

District nun:	1	Api number:	03715169
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	unk		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	132
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210740		

286
ESE **OIL_GAS** **CAOG11000210788**
1/2 - 1 Mile

District nun:	1	Api number:	03715217
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	43
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210788		

BO287
East **OIL_GAS** **CAOG11000210805**
1/2 - 1 Mile

District nun:	1	Api number:	03715234
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	218
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210805		

Map ID
Direction
Distance

Database EDR ID Number

288
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210638**

District nun:	1	Api number:	03715058
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	J. C. Pollock		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210638		

BN289
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210708**

District nun:	1	Api number:	03715128
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	15
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	70
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210708		

BL290
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210493**

District nun:	1	Api number:	03714876
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	322
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210493		

BP291
ENE **OIL_GAS** **CAOG11000210501**
1/2 - 1 Mile

District nun:	1	Api number:	03714884
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	15
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	340
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210501		

BM292
WNW **OIL_GAS** **CAOG11000215204**
1/2 - 1 Mile

District nun:	1	Api number:	03723912
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Unknown Operator		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Unknown Well	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000215204		

293
West
1/2 - 1 Mile

OIL_GAS **CAOG11000210742**

District nun:	1	Api number:	03715171
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	137
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210742		

BR294
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210806**

District nun:	1	Api number:	03715235
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	219
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210806		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

BS295
East **OIL_GAS** **CAOG11000210816**
1/2 - 1 Mile

District nun:	1	Api number:	03715245
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	254
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210816		

BT296
ENE **OIL_GAS** **CAOG11000210698**
1/2 - 1 Mile

District nun:	1	Api number:	03715118
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	60
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210698		

297
ENE **OIL_GAS** **CAOG11000210477**
1/2 - 1 Mile

District nun:	1	Api number:	03714860
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	289
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210477		

298
SSE **OIL_GAS** **CAOG11000210365**
1/2 - 1 Mile

District nun:	1	Api number:	03714690
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Oil Company of California		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Masselin	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210365		

299
East **OIL_GAS** **CAOG11000210786**
1/2 - 1 Mile

District nun:	1	Api number:	03715215
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	41
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210786		

BQ300
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210306**

District nun:	1	Api number:	03714620
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210306		

BT301
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000210703**

District nun:	1	Api number:	03715123
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	65
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210703		

Map ID
Direction
Distance

Database EDR ID Number

BU302
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210502**

District nun:	1	Api number:	03714885
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	15
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	341
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210502		

BU303
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000210701**

District nun:	1	Api number:	03715121
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Rancho La Brea Oil co.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	16
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	63
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210701		

BV304
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210289**

District nun:	1	Api number:	03714603
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Beverly	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210289		

BU305
ENE **OIL_GAS** **CAOG11000210494**
1/2 - 1 Mile

District nun:	1	Api number:	03714877
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	324
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210494		

BV306
West **OIL_GAS** **CAOG11000210743**
1/2 - 1 Mile

District nun:	1	Api number:	03715172
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	139
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210743		

BR307
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210808**

District nun:	1	Api number:	03715237
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	22
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	237
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210808		

308
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000210789**

District nun:	1	Api number:	03715218
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	21
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	46
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210789		

Map ID
Direction
Distance

Database EDR ID Number

BS309
East
1/2 - 1 Mile

OIL_GAS **CAOG11000210469**

District nun:	1	Api number:	03714852
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	22
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Salt Lake	Wellnumber:	272
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210469		

310
SE
1/2 - 1 Mile

OIL_GAS **CAOG11000210364**

District nun:	1	Api number:	03714689
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	B
Operator name:	Union Oil Company of California		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	28
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Masselin	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210364		

311
WNW
1/2 - 1 Mile

OIL_GAS **CAOG11000210309**

District nun:	1	Api number:	03714623
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	I
Operator name:	Garbutt Oil Co. (A. M. Stephens Co.)		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	AOG
Site id:	CAOG11000210309		

312
WNW **OIL_GAS** **CAOG11000210291**
1/2 - 1 Mile

District nun:	1	Api number:	03714605
Blm well:	N	Redrill can:	Not Reported
Dryhole:	N	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Salt Lake
Area name:	Any Area	Section:	20
Township:	01S	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Beverly	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	POG
Site id:	CAOG11000210291		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90036	48	1

Federal EPA Radon Zone for LOS ANGELES 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 LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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 & Game
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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX E

Supporting Documentation

TOWN & COUNTRY SHOPPING CENTER

TOWN COUNTRY SHOPPING CENTER RENT ROLL

April 21, 2017

TENANT	UNIT	SQUARE FEET	LEASE START	LEASE END	CURRENT MO. RENT	RENT SQ. FOOT	MONTHLY RENT SCHEDULE		OPTIONS	% RENT	SECURITY DEPOSIT
CVS	6360	23,040	12/1/1986	11/30/2019	$79,000.00	$3.43	12/1/2019	$90,833.33	**2-5-YR**	2%	None
							12/1/2024	$105,666.67	**12/01/19 to 11/30/24**		
									12/01/24 to 11/30/29		
WHOLE FOODS	6350	41,158	1/1/2002	2/28/2022	$161,443.92	$3.92			**3-5-YR**	1.50%	None
							3/1/2022	$177,588.31	**03/01/2022 to 02/28/2027**		
							3/1/2027	$195,347.14	**03/01/2027 to 02/28/2032**		
							3/1/2032	$214,881.86	**03/01/2032 to 02/28/2036**		
WHOLE FOODS	Patio		1/1/2002	2/28/2022	$1,259.71						None
K-MART CORPORATION	6310-6320	138,147	4/1/1978	8/31/2017	$30,416.67	$0.22			**None**		None
CITIBANK	300 Fairfax	11,249	4/1/1973	3/31/2018	$41,445.80	$3.68			**None**	N/A	None
PAYLESS SHOESOURCE	6324	3,804	1/11/1995	7/31/2017	$13,204.55	$3.47			**None**	5%	None
ANDRE'S	6332-17,18,19	5,245	3/1/1988	4/30/2018	$24,634.50	$4.70	1/1/2018	$25,250.36	**None**	N/A	$933.34
											$20,000 Letter of Credit)
ANDRE'S STORAGE	19A	840	3/11/1988	4/30/2018	No Rent Charge						

TOWN & COUNTRY SHOPPING CENTER

TOWN COUNTRY SHOPPING CENTER RENT ROLL

April 21, 2017

TENANT	UNIT	SQUARE FEET	LEASE START	LEASE END	CURRENT MO. RENT	RENT SQ. FOOT	MONTHLY RENT SCHEDULE		OPTIONS	% RENT	SECURITY DEPOSIT
LORI SALE and JEAN KWOLEK	370 S. Fairfax	1,908	11/1/2015	10/31/2019	$4,590.00	$2.41	11/1/2017 11/1/2018	$4,681.80 $4,775.43	**None**	N/A	$4,500.00
MANNEQUINES BOUTIQUE, INC.	6322 W. 3rd	1504	6/1/2016	8/31/2017	$4,500.00	$2.99					$4,500.00
NEWSSTAND	6330 W. 3rd	666	3/1/2008	Month-to-Month	$5,545.85	$8.33			**None**		$5,000.00
WIGS TODAY	6328 W. 3rd	934	3/1/2008	Month-to-Moth	$6,307.35	$6.75			**None**		$5,604.00
VAN WAGNER	Billboard		9/19/1999	Month to Month	$4,300				**None**		
A-1 KEYS	Kiosk		10/18/2000	Month-to-Month	$905.18				**None**		$550.00
MAJESTIC CAR WASH **AUTO SPA CONNECTION**	8017 W. 3rd.	24,050	9/1/1964	6/30/2029	$14,000	$0.58	07/01/19-06/30/24 07/01/24-06/30/29	$18,000 $22,000	**None**		$10,000.00
ARTYOM HARUTYUNYAN	6330 1/2	100	4/12/2013	Month-to-Month	$1,155.68	$11.56			**None**		$700.00
KIDS RIDE			6/1/1999	N/A	$1.00						
SAN DIEGO PAYPHONE			8/1/2000	N/A	$1.00						
STARLITE MEDIA	Signs		9/18/2003	5/31/2017	$385.00				**None**		
		252,645			**$393,096.21**						

Anita- D:\home\z68ewjlrequests\aug03\r1311\r1311_combined_methane&methane_buffer_zones

Oat Mountain
Aliso Canyon
Cascade
Horse Meadows (Abd.)
Mission (Abd.)
Mission (Abd.)
Pacoima
San Fernando
Santa Monica Mountains
Beverly Hills
Sherman (Abd)
San Vicente
Salt Lake
South Salt Lake
Los Angeles City
Sawtelle
Beverly Hills
Cheviot Hills
Union Station
Boyle Heights (Abd)
Los Angeles Downtown
Las Cienegas
Santa Monica
Venice Beach (Abd)
Playa Del Rey
Inglewood
Potrero
Hyperion
Howard Township
El Segundo
Rosecrans
Compton
Lawndale
East Rosecrans
South Rosecrans
Alondra
Dominguez
Torrance
Long Beach Airport
Long Beach
Gaffey (Abd)
Wilmington
Seal Beach
San Pedro
Belmont Offshore
Pacific Ocean

BASIC GRID MAP
CITY OF LOS ANGELES
BUREAU OF ENGINEERING
Ordinance 175,790

JAMES K. HAHN
MAYOR

Methane Zone
Methane Buffer Zone
Council District Boundary

METHANE AND METHANE BUFFER ZONES

CITY OF LOS ANGELES

Prepared by GIS Mapping, Bureau of Engineering, Dept. of Public Works - 03/31/04

N

LA DPW ENGINEERING
Serving the Present; Designing the Future

GARY LEE MOORE, P.E.
CITY ENGINEER

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

3rd and Fairfax – 6300 to 6332 West 3rd Street

Los Angeles, California

Prepared For:

Wactor & Wick, LLP
3640 Grand Avenue, Suite 200
Oakland, California 94610

Prepared By:

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130
Laguna Hills, California 92653

March 1, 2018

Project No. 2047.15.02S

PHASE II ENVIRONMENTAL SITE ASSESSMENT

3rd and Fairfax – 6300 to 6332 West 3rd Street
Los Angeles, California

March 1, 2018

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3640 Grand Avenue, Suite 200
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Laguna Hills, California 92653

Derrick S. Willis
Principal

Nicky G. Robinson, PE
Project Engineer

Dana R. Brown, PG
Senior Geologist

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A Field Procedures
B Boring Logs
C Soil Vapor Probe Construction Details
D Laboratory Analytical Reports

CERTIFICATION

All geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a Northgate California Professional Geologist.

March 1, 2018

Dana R. Brown, PG — Date
Senior Geologist
California Professional Geologist #7188

This document was prepared by:

March 1, 2018

Nicky G. Robinson, PE — Date
Project Engineer
California Professional Engineer #83985

A Professional Geologist's or Engineer's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

1.0 INTRODUCTION

This report presents the results of a Phase II Environmental Site Assessment (ESA) performed by Northgate Environmental Management, Inc. (Northgate) for Wactor & Wick LLP (Wactor & Wick) on behalf of its client Holland Partner Group, at the 3rd and Fairfax property located at 6300 to 6332 West 3rd Street in Los Angeles, California (the Site). The Site consists of approximately 3.06 acres of land located southwest of the intersection of West 3rd Street and South Ogden Drive. The southern portion of the Site is developed with a commercial structure occupied by various retail stores and restaurants, and the northern portion of the Site consists of a paved parking lot. The Site comprises the eastern portions of Assessor's Parcel Numbers (APNs) 5509-018-003 and -009 in Los Angeles County. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

1.1 Objectives

The primary objective of the Phase II ESA was to assess the potential presence of soil, groundwater, and soil vapor quality impacts related to issues of environmental concern identified in a Phase I ESA prepared for the Site by Northgate dated January 30, 2018 (Northgate, 2018), and to present the data to allow the decision makers to understand the extent of contamination for excavation and disposal cost estimating.

1.2 Scope of Work

The scope of the Phase II work included the following:

- Site walk to mark the proposed boring locations, and notification to Underground Service Alert (USA) for underground utility clearance;
- Preparing a Site-specific Health and Safety Plan (HASP);
- Advancing 15 borings to depths of 25 to 30 feet below ground surface (bgs) for collecting soil samples at depths of 1', 5', 10', 15', 20', 25' and 30' bgs to provide adequate data density for accurately modeling the extent of soil contamination using the CTech EVS model and to determine presence and depth of groundwater;
- Selecting and analyzing three soil samples per boring (total of 45 soil samples) for total petroleum hydrocarbons as gasoline/carbon-chain (TPH-g/cc), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and polychlorinated biphenyls (PCBs), a total of 41 soil samples for Title 22 metals, a total of 15 soil samples for organochlorine pesticides (OCPs), and 15 samples for asbestos;
- Collecting and analyzing six groundwater samples for TPH and VOCs;

- Installing five temporary soil vapor sample probes at depths between 8 and 25 feet bgs for collecting and analyzing soil vapor samples for TPH and VOCs;
- Boring locations were selected based on the results of the Phase I ESA which located relevant former oil field improvements including an abandoned oil well, oil tanks and oilfield sumps, as well as adding additional borings to obtain data in other accessible portions of the Site. Note that no samples could be obtained beneath existing buildings, and therefore no data is available in these areas;
- Creating a three-dimensional model using the C Tech Development Corporation's Earth Volumetric Studio (EVS) V17.6 visualization package to estimate the TPH-d and TPHmo concentrations at cell center locations within a convex hull grid; and
- Preparing this report.

2.0 BACKGROUND

2.1 Site Description

The Site consists of approximately 3.06-acres of land located at 6300 to 6332 West 3rd Street in the City of Los Angeles, California. The Site consists of two parcels identified as Assessor's Parcel Numbers (APN) 5509-018-003 and -009 in Los Angeles County. The Site is currently developed with a commercial structure on the southern portion of the Site that is occupied by various retail stores and restaurants, and a parking lot in the northern portion of the Site. A Site Vicinity Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

2.2 Site History

Northgate previously conducted a Phase I ESA at the Site (Northgate, 2018) that indicates that the Site (primarily the northern portion of the Site) was originally developed as part of the Salt Lake Oil Fields from the early 1900's through the early 1930s. The Salt Lake Oil Field was a regional oil production area that operated through the early 1930s, prior to regional development for residential and commercial land use. One oil well was installed to an approximate depth of 2,909 feet bgs on the northeastern corner of the Site in 1906 and was abandoned in 1930. Three "sumps" (bermed ponds where oil field liquids are collected) were possibly present in the central portion of the Site during that time. The Site remained vacant land until the central portion of the Site was developed in 1948 with a commercial structure that extended onto the adjacent property to the west. The remainder of the Site was utilized for parking. In 1962, the Site was redeveloped into the current configuration with a multi-tenant commercial structure on the southern portion of the Site and parking on the northern portion. The Site is located within the Los Angeles designated Methane Zone.

2.3 Regional and Local Geology and Hydrology

The Site is located in the northern portion of the Los Angeles Basin. The basin is bound by the Santa Monica Mountains to the northwest and by the Santa Ana Mountains and San Joaquin Hills to the east and southeast. Sediments of the Lakewood and San Pedro formations of Pleistocene age extend to a maximum depth of 650 feet bgs in the area. A geotechnical investigation performed at the Site in 2017 indicated that subsurface soil at the Site consisted primarily of clays and sandy clays to depths of approximately 18 feet bgs underlain by interbedded layers of silty sand and sandy clay (KAI, 2017).

The Site is located within the southwestern portion Hollywood Groundwater Basin. The Hollywood Piedmont Slope and part of the La Brea Plain overlay the Hollywood Basin. A shallow perched zone of groundwater has been reported in the Site vicinity. The Exposition Aquifer, the first major aquifer beneath the Site, is present at about 120 feet bgs. Additional deeper aquifers beneath the Site include the Gardena/Gage, Lynwood, Silverado, and Sunnyside Aquifers (BEC, 2015).

Groundwater information collected in the Site vicinity by others indicates that groundwater has historically been encountered at depths between 20 and 30 feet bgs. Groundwater monitoring data from nearby sites indicates the groundwater flow direction has variably been directed towards the northwest (TRG, 2013) and the southwest (BEC, 2015). A geotechnical investigation performed at the Site in 2017 encountered groundwater at depths of approximately 18 feet bgs (KAI, 2017). Based on general topography and the regional groundwater flow direction, it is Northgate's opinion that groundwater flow at the Site is likely directed generally towards the southwest. However, dewatering or other pumping activities in the area can influence groundwater flow direction at properties that report groundwater flow directed towards the northwest.

3.0 INVESTIGATION METHODS

Northgate conducted soil, groundwater, and soil vapor sampling at the Site between January 29 and 31, 2018. Sampling locations are shown on Figure 4. Field investigation procedures are summarized in Appendix A.

3.1 Pre-Field Activities

Before sampling activities began, Northgate met with Mr. Dan Austin, the property manager for Town and Country Shopping Center and conducted a walk-through of the Site to mark proposed sampling locations and secure access. Other pre-field activities included the tasks outlined below.

3.1.1 Health and Safety Plan

Northgate prepared a Site-specific HASP for the Phase II ESA. The HASP was prepared in accordance with applicable federal and state regulations. The HASP addressed the potential for exposure to hazardous constituents, and delineated the general safety procedures that are required for the safe operation of mechanical equipment to be used while conducting the field operations at the Site.

3.1.2 Underground Utility Clearance

USA was notified, as required by law, 48-hours prior to any intrusive activities began in order to locate utilities in the vicinity of the borings. Northgate also contracted with Goldak, Incorporated, an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions so that the sampling locations were "clear" of any subgrade features.

3.2 Soil Sampling and Analysis

Fifteen borings (B-1 through B-15) were advanced across the Site as shown on Figure 3, and as described below. In general the borings were advanced to a depth of 30 feet bgs with samples collected at 1, 5, 10, 15, 20, 25, and 30 feet bgs for logging, screening and selection of samples for analysis. The samples collected at 1, 10, and 20 feet bgs were analyzed for TPH, VOCs, SVOCs, Title 22 metals, and PCBs. The samples collected at 1 foot bgs were also analyzed for OCPs and asbestos.

- Boring B-1 was advanced in the northwestern corner of the Site in the location of a historic oil field sump.

- Boring B-2 was advanced in the northwestern corner of the Site in the location of a historic oil field aboveground storage tank (AST).
- Boring B-3 was advanced in the northern portion of the Site in the location of a historic oil field sump.
- Boring B-4 was advanced in the northeastern portion of the Site in the location of a historic oil field tank and in the vicinity of the abandoned historic oil well. In addition to testing the 1, 10 and 20' bgs samples, the sample collected at 15 feet bgs was analyzed for TPH and VOCs based on field indicators described in the boring logs.
- Boring B-5 was advanced in the central portion of the Site north of a historic oil field sump. This boring had to be relocated north of the historic sump based on building and utility locations.
- Boring B-6 was advanced in the southern portion of the Site south of the location of a historic oil field process tanks.
- Borings B-7 through B-15 were advanced in the parking lot area next to the buildings in order to obtain representative soil quality data. Borings B-7, B-8, and B-11 through B-15 were located in the northern parking lots areas and borings B-9 and B-10 were located in the southern parking lot and alley portion of the Site. Samples from boring B-15 were not analyzed for Title 22 metals. In addition to testing the 1, 10 and 20' bgs samples, the sample collected at 15 feet bgs in Borings B-8 and B-13 were analyzed for TPH and VOCs based on field indicators described in the boring logs. No sample was collected at 20 feet in B-13 as perched groundwater was encountered at 19.5 feet bgs.

All borings were advanced by BC2 Environmental of Orange, California, using a track-mounted Geoprobe rig. During sampling, continuous cores of subsurface materials were collected in clear acetate liners. Upon removing the sampler from the borehole, the acetate liner containing the soil core was opened at various intervals, and soils were visually inspected and screened with a photoionization detector (PID) for the possible presence of contamination. Borings were logged in the field in accordance with the Unified Soil Classification System (USCS). Copies of the boring logs are attached as Appendix B.

Soil samples were collected from the borings at approximate 5-foot intervals. Sample intervals selected for non-volatile chemical analysis were cut from the liners, sealed with Teflon tape and plastic caps, labeled, and stored on ice in a cooler for transport to the testing laboratory under chain-of-custody control. Samples collected for TPH-g and VOC analysis were collected using Lock^{n}Load^{TM} sampler and preserved in ethanol and sodium bisulfate in volatile organic analysis (VOA) vials in compliance with Environmental Protection Agency (EPA) Method 5035.

After the sampling was completed, the borings were backfilled with hydrated bentonite and a concrete plug was placed at the surface to match existing conditions. Soil sampling methodology is further described in Appendix A.

Soil samples were transported to SunStar Laboratories, Inc. (SunStar), a California certified laboratory in Lake Forest, California under proper chain-of-control custody, for analysis. Soil samples were analyzed for TPH-g/cc using EPA Method 8015M, VOCs using EPA Method 8260, Title 22 metals using EPA Method 6010B/7471, SVOCs using EPA Method 8270C, PCBs using EPA Method 8082, OCPs using EPA Method 8081. In addition, soil samples collected at the surface, to depths of approximately 1 foot bgs, were submitted to Patriot Environmental Laboratory Services, Inc., a California ELAP-certified laboratory in Fullerton, California, for analysis for asbestos using polarized light microscopy (PLM).

3.3 Groundwater Sampling

Grab-groundwater samples were collected from borings B-2, B-3, B-4, B-11, B-13, and B-14, the only borings where groundwater was encountered, by lowering a disposable microbailer through a temporary well screen installed in the Geoprobe drive rods to the bottom of the boring. The borings were advanced to depths ranging between 25 and 30 feet bgs, respectively with groundwater encountered at a depths of approximately 19 to 23 feet bgs.

The groundwater sample locations are described below.

- B-2 was collected at a depth of 21.1 feet bgs in boring B-2 located in the northwestern corner of the Site in the location of a historic oil field AST;
- B-3 was collected at a depth of 23.3 feet bgs in boring B-3 located in the northern portion of the Site in the location of a historic oil field sump;
- B-4 was collected at a depth of 22.5 feet bgs in boring B-4 located in the northeastern portion of the Site in the location of a historic oil field AST and in the vicinity of the abandoned historic oil well;
- B-11 was collected at a depth of 22.1 feet bgs in boring B-11 located in the northern parking lot to provide areal groundwater quality data;
- B-13 was collected at a depth of 19.65 feet bgs in boring B-13 located in the northern parking lot to provide areal groundwater quality data; and
- B-14 was collected at a depth of 20.6 feet bgs in boring B-14 located in the northern parking lots areas in order to provide areal groundwater quality data.

The samples were placed in laboratory-supplied sample bottles, stored on ice in a cooler, and transported to SunStar under chain-of-custody control for analysis for TPH-g/cc using EPA Method 8015M and for VOCs using EPA Method 8260B. Groundwater sampling methodology is further described in Appendix A.

3.4 Soil Vapor Survey

Temporary soil vapor probes (SVPs) were installed at five locations (Borings B-4, B-6, B-11, B-12, and B-15) across the Site as shown on Figure 4; however, soil vapor samples could not be collected from borings B-11 and B-12 due to lack of sufficient soil vapor flow. The SVPs were installed using 2-1/4 inch inside-diameter hollow drill rods. The probe consisted of a 3/8" x 1" Stone PolyPro vapor probe implant with 1/4-inch Speed Fit installed at 5 feet bgs. Nylaflow tubing (¼ inch diameter) was connected from the implant to the ground surface, and terminated above the existing concrete slab. The borehole annulus around the implant and tubing was filled through the drill rods with sand 6 inches above and below the implant, 12 inches of dry bentonite placed 1 foot above the sand and hydrated bentonite chips from above the sand to the ground surface.

The SVP locations are described below.

- B-4-15.0 was installed at a depth of 15 feet bgs in boring B-4 located in in the area of a historic oil field tank and in the vicinity of the abandoned historic oil well;
- B-6-10.0 was installed at a depth of 10 feet bgs in boring B-6 located in the area of a historic oil field process tanks;
- B-11-8.0 was installed at a depth of 8 feet bgs in boring B-11 located in the northern parking lots areas in order to obtain areal soil vapor quality data (no sample was able to be collected at this location);
- B-12-12.0 was installed at a depth of 12 feet bgs in boring B-12 located in the northern parking lots areas in order to obtain areal soil vapor quality data (no sample was able to be collected at this location); and
- B-15-25.0 was installed at a depth of 25 feet bgs in boring B-15 located in the northern parking lots areas in order to obtain areal soil vapor quality data.

After installation, each SVP was allowed to stabilize for two hours constructed in accordance with Department of Toxic Substances Control (DTSC) advisory for active soil gas investigations dated August, 2015 (DTSC, 2015)[1]. Prior to sampling, each probe was purged of approximately

[1] DTSC, August, 2015. Advisory – Active Soil Gas Investigations.

three-well volumes of air. A vapor sample was then collected from each probe using a summa canister and flow regulator that maintained a flow rate of 150 milliliters per minute. There was insufficient airflow from SVPs installed in B-11 and B-12 so samples could not be collected. Each sample was transported to SunStar and analyzed for TPH-g using EPA Method TO-3, VOCs using EPA Method TO-15.

After the soil vapor survey was conducted, the SVPs were removed and the borings backfilled with hydrated bentonite to just below the surface and a concrete plug was placed at the surface to match existing conditions. Soil vapor sampling methodology is further described in Appendix A. Temporary vapor probe construction details are presented in Appendix C.

3.5 Data Evaluation Criteria

Chemical test results from soil samples collected during this investigation were evaluated with respect to landfill disposal site acceptance criteria to determine whether the soil must be sent to Class I, II or III disposal facilities or could be used as unrestricted fill on any construction site in the area.

The groundwater sample test results are compared to the California Maximum Contaminant Levels (MCLs), the State primary drinking water standards and influent requirements for the [Los Angeles Regional Water Quality Control Board (LARWQCB) Order No. R4-2013-0098 General National Pollutant Discharge Elimination System (NPDES) Permit No. CAG994004 Waste Discharge Requirements for Discharges of Groundwater from Construction and Project Dewatering to Surface Water in Costal Watersheds of Los Angeles and Ventura Counties (the NPDES Permit).

Soil vapor sample test results are compared to EPA RSLs and DTSC SLs for residential and commercial land use. The RSLs and SLs have been developed for indoor air concentrations; therefore, RSLs and SLs for soil vapor were calculated using an attenuation factor. A non-Site specific, conservative attenuation factor of 0.002 was applied to the RSLs and SLs for indoor residential indoor air, and a conservative attenuation factor of 0.001 was applied to the RSLs and SLs for commercial indoor air to develop calculated SLs for soil vapor. The attenuation factors were derived from the DTSC *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)* (DTSC, 2001). The purpose of this evaluation was to gain information about possible soil and groundwater contamination in the soil volume planned for excavation which was not reflected in the limited number of soil and groundwater samples collected.

4.0 INVESTIGATION RESULTS

4.1 Subsurface Conditions

All drilling locations were covered with approximately four to eight inches of asphalt. Subsurface soils encountered during drilling generally consisted of sand, silty sand, and clayey sand to approximately 5 feet bgs underlain by discontinuous interbedded sandy clayey silts and clayey silty sands to approximately 30 feet bgs, the total depth explored. Groundwater was encountered in only six of the 15 borings and was found to be located in the central portion of the parking lot, at depths ranging between approximately 19 and 23 feet bgs. The estimated lateral extent is shown on Figure 4; however, there may be other areas on the site where localized groundwater may be encountered. Boring logs are attached in Appendix B.

4.2 Analytical Results

Chemical test results for soil samples analyzed during this investigation are presented on Tables 1 (TPH), 2 (VOCs, SVOCs, PCBs, OCPs, and Asbestos), and 3 (Title 22 metals). The sampling shows that the most pervasive compounds of concern present in the subsurface are total petroleum hydrocarbons in two middle carbon ranges, C13-C28 (TPH-d) and C29-C40 (TPH-mo). Subject to site access limitations, this impacted soil is generally located in the northwestern portion of the parking lot (vicinity of borings B-2, B-11 and B-13) and the northeastern portion of the parking lot (vicinity of borings B-4, B-12, and B-15). No other compounds of concern were detected in soil, soil vapor or groundwater, other than relatively low concentrations of the chlorinated solvent TCE in two soil vapor samples that are coterminous with borings showing TPH soil contamination.

Groundwater sample test results are presented on Table 4 and soil vapor sample test results are presented on Table 5. Copies of the laboratory analytical reports are presented in Appendix D. Test results are discussed in detail the following sections.

4.2.1 Soil Sampling Analytical Results

As shown on Table 1, total petroleum hydrocarbons as diesel (TPH-d) were reported above laboratory reporting limits (RLs) in 28 of the 47 samples analyzed, at concentrations up to 1,100 mg/kg. TPH-d was measured in soil above the groundwater protection RWQCB TPH Maximum SSL of 100 milligrams per kilogram (mg/kg) and the EPA RSL for residential land use of 110 mg/kg in 10 samples at concentrations ranging between 160 and 1,100 mg/kg. These elevated concentrations were generally reported in samples collected at 1 foot bgs in the northeastern and northwestern portions of the Site. However, the highest concentration

(1,100 mg/kg) was reported at a depth of 15 feet bgs from boring B-4, which is located in the eastern portion of that parking lot-part of the Site at one of the historic oil field tanks and in the vicinity of the abandoned historic oil well. The approximate lateral extent of TPH-d impacted soil is shown on Figures 5a (one foot bgs), 5b (five feet bgs), 5c (10 feet bgs), and 5d (15 feet bgs). Soil exceeding 100 mg/kg TPH-d would typically be sent to a Class III landfill or recycling facility for disposal purposes and would not be used for unrestricted fill.

Total petroleum hydrocarbons as motor oil (TPH-mo) were reported in 24 of the 47 samples analyzed, at detected concentrations ranging from 20 to 1,300 mg/kg. The TPH-mo detections were found primarily at the same sample locations with reported concentrations of TPH-d. Reported concentrations of TPH-mo exceeded the groundwater protection RWQCB TPH-mo Maximum SSL of 1,000 mg/kg in five soil samples, at concentrations up to 1,300 mg/kg. Four of the exceedances were measured in shallow soil samples collected at one foot bgs and one was collected at a depth of 15 feet bgs from boring B-4. None of the samples collected at 10 feet bgs contained TPH-mo above the SSL of 1,000 mg/kg. The reported concentrations of TPH-mo did not exceed the EPA soil RSLs for residential or commercial land use. The approximate lateral extent of TPH-mo impacted soil is shown on Figures 6. Soil exceeding 1,000 mg/kg would typically be sent to a Class III landfill or recycling facility for disposal purposes and would not be used for unrestricted fill.

Low concentrations of total petroleum hydrocarbons as gasoline (TPH-g) were measured in B-5 at 10 feet bgs, B-8 at 10 feet bgs, B-11 at 10 feet bgs, and B-12 at 1 foot bgs; however, the reported concentrations did not exceed any regulatory screening criteria.

As shown on Table 2, several gasoline-related VOCs, including benzene, ethylbenzene, toluene, m,p-xylene, and sec-butylbenzene, were measured above the laboratory RLs. However, none of these reported concentrations exceeded their respective regulatory screening criteria. No SVOCs, PCBs, OCPs, or asbestos were reported above their respective laboratory RLs in any of the samples analyzed.

Low concentrations of several metals, including barium, chromium, cobalt, copper, nickel, vanadium, and zinc were reported in all of the 47 samples analyzed, as shown on Table 3. In addition, cadmium was measured above the laboratory RL in one sample. None of the reported concentrations of metals exceeded their respective EPA RSLs or DTSC SLs for residential or commercial/industrial land use.

4.2.2 Groundwater Sampling Analytical Results

Groundwater sample test results are shown on Table 4 and on Figure 7. TPH-d (carbon range C13 – C28) was the only TPH range contaminant reported in groundwater and was found in five of the six groundwater samples collected, at concentrations ranging between 520 and 2,000 µg/L. Although there is no California MCL for TPH-d, the reported concentrations of TPH-d exceed the EPA RSL for tapwater of 5.5 µg/L and the RWQCB NPDES discharge level of 100 µg/L.

With the exception of a concentration of 0.92 µg/L of toluene found only in Boring B-2, no VOCs were measured in any of the groundwater samples. The reported concentration of toluene is well below the California MCL of 1,000 µg/L.

The groundwater samples collected from borings B-2 and B-3 were also tested for dissolved metals. None of the reported concentrations of metals exceeded their respective California MCLs. The test results are shown on Table 4.

4.2.3 Soil Vapor Analytical Results

Soil vapor samples were collected from SVPs set in borings B-4, B-6, and B-15. Soil vapor samples could not be collected from SVPs set in borings B-11 and B-12 due to lack of flow. As shown on Table 5, TPH-g was reported in soil vapor from boring B-4 at a concentration of 11,600 micrograms per cubic meter (µg/m^3). The reported concentration did not exceed the calculated residential soil vapor RSL of 15,500 µg/m^3 or the calculated commercial soil vapor RSL of 130,000 µg/m^3. No residential or commercial SLs have been established for TPH-g. This TPH-g soil vapor detection indicates that there may have been a gasoline release in the area.

Trichloroethene (TCE) was reported in soil vapor in two wells, B-4 (at 15 feet bgs at 17 µg/m^3) and B-15 (at 15 feet at 770 µg/m^3). The reported concentration from B-15 exceeds the calculated EPA RSL for residential land use of 240 µg/m^3. Both B-4 and B-15 also showed TPH-d and TPH-mo and benzene soil contaminants.

Toluene was reported in soil vapor from boring B-4 at a concentration of 15 µg/m^3, which does not exceed the calculated residential or commercial soil vapor RSLs or SLs. Cyclohexane (another gasoline constituent) was reported at a concentration of 1,100 µg/m^3 in the sample from boring B-6. The result is well below the calculated residential RSL of 3,100,000 µg/m^3.

Isopropyl alcohol (IPA) was also measured in soil vapor from boring B-6 at a concentration of 3,100 µg/m^3, which is well below the calculated residential RSL of 105,000 µg/m^3 and commercial RSL of 880,000 µg/m^3. Notably, because IPA was used as a leak detection compound during sampling, the detected IPA may be attributed to a faulty seal in the probe or dedicated sampling apparatus associated with the probe in B-6 only and is not derived from an on-site source.

5.0 THREE-DIMENSIONAL PLUME MODEL

Northgate calculated the approximate volume of soil beneath the Site that might require special handling or disposal during excavation activities due to the presence of contaminants reported in the subsurface soil. Testing performed at the Site during this investigation indicates that the most pervasive organic compounds present in the subsurface are total petroleum hydrocarbons in two carbon ranges, C13-C28 (TPH-d) and C29-C40 (TPH-mo). Model results are shown on Figures 5, 6, and 8-11.

5.1 Model Input Information & Assumptions

Fifteen borings were advanced to total depths of 20 to 30 feet bgs. As described in Section 3.2, soils samples were collected for chemical analysis at 1, 10, and 20 foot-foot depth intervals (with additional 15-foot intervals at certain locations based on field indicators). Figure 3 shows the locations of the borings on the site. The following data was input into the model:

- The surface coordinates of the 15 borings (all samples were assumed to be collected at the same x and y coordinates of the surface location);
- The depth below ground surface that the soil samples were collected;
- The concentration of TPH-d and TPH-mo in those samples;
- A proposed maximum depth of excavation of 18 feet bgs during construction;
- The geometry of the basement beneath the K-Mart store;
- The total soil volume to be excavated as part of site redevelopment is 55,000 cubic yards based on building excavation plans;
- The areal extent of the Site was based on a Google Earth ™ image and assumes the Site is flat with no relief.
- The volume of the K-mart basement to be subtracted from the gross Site volume to 18 feet bgs was based on the building image from Google Earth ™.
- There are 47 discrete analyses for each of the chemicals evaluated.

From this information, a three-dimensional model was created using the C Tech Development Corporation's Earth Volumetric Studio (EVS) V17.6 visualization package to estimate the TPH-d and TPH-mo concentrations at cell center locations within a convex hull grid. A convex hull generated grid system with a nominal spacing of approximately 1.4 and 2.0 feet in the x and y directions respectively and proportional gridding in the z direction of from 0.2 feet to 0.6 in the z direction was established as the estimation grid. The ground surface, the proposed bottom of the

excavation (18 ft bgs) and the basement configuration of the K-Mart were used as constraining boundaries for the model.

The model application applies estimation techniques by using analytical data results of TPH concentrations from soil samples collected at known x, y and z coordinates in boreholes to calculate the TPH concentrations at grid locations without direct analytical results. The volume of soil impacted with TPH concentrations above 100 mg/kg (for diesel), or 1,000 mg/kg (motor oil) is then calculated spatially by summing the volume of each grid cell that contains soil with estimated concentrations above 100 mg/kg or 1,000 mg/kg, as applicable.

5.2 Plume Depictions and Volumetric Results

Plume models were generated for two scenarios for each of the TPH constituents described, creating four plume models:

- A plume of the estimated volume of TPH-d at greater than 100 mg/kg (Figures 8a and 8b).
- A plume of the estimated volume of TPH-mo greater than 1,000 mg/kg (Figure 9a and 9b).
- A plume showing the estimated volume of TPH-d greater than the laboratory reporting limit of 10 mg/kg (Figures 10a and 10 b).
- A plume showing the estimated volume of TPH-mo greater than the laboratory reporting limit of 10 mg/kg (Figures 11a and 11b).

Figures 5a, 5b, and 5c show a horizontal slice through the estimated TPH-d 1,000 mg/kg plume at the ground surface (samples collected at 1-foot bgs), 5 feet bgs, and 10 feet bgs, respectively.

Figure 6 shows a horizontal slice through the plume at the ground surface of the TPHmo 1,000 mg/kg plume.

The Figure 8 and 9 series views are from the northeast looking southwest as the volume of contaminated soil is greatest on the northern portion of the Site. The Figure 10 and 11 series views are shown from the southwest looking northeast as the estimation of the low concentration plumes are relatively pervasive across the Site. Figures 8 through Figure 10 all have a two times vertical exaggeration to assist in visualization.

The volume of impacted soil in the each of the estimated plumes was calculated by the model using the volumetric tool in the EVS application. The table below provides the results of that calculation.

Plume	Estimated Volume of Impacted Soil in cu yd
TPH-d plume equal to or greater than 100 mg/kg	5,526 yd^3
TPH-mo plume equal to or greater than 1000 mg/kg	69 yd^3
TPH-d plume equal to or greater than 10 mg/kg	43,641 yd^3
TPH-mo plume equal to or greater than 10 mg/kg	47,006 yd^3

Notably, the estimated confidence at the lower concentrations approaching (10 mg/kg) decreases fairly rapidly because the lowest values included in the dataset are very close to the 10 mg/kg value, which creates a significant upward bias (overestimation) of the volume estimation at or near the 10 mg/kg estimated concentration.

6.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation included the analysis of 47 soil samples, five groundwater samples, and three soil vapor samples, collected from 15 borings and three soil vapor probes advanced in areas of the former oilfield production facilities that included storage tanks and sumps and a former oil and gas well, and in other areas to provide spatial coverage. Conclusions regarding subsurface conditions based on the chemical test results are presented below.

6.1 Soil

Petroleum hydrocarbons, primarily TPH-d, were detected above screening levels for residential and commercial land use in the soil at certain areas of the Site. Impacted soil above RWQCB TPH Maximum SSLs and EPA RSLs for residential and commercial land use was determined to be located primarily in the northeastern and northwestern portion of the Site. The impacts were primarily encountered in the very shallow soils, but extended to 15 feet bgs in three areas located in the north central part of the Site near the former oil well complex.

Based on the analytical data used in the model (not considering SCAQMD Rule 1166 – as discussed below), approximately 5,500 cubic yards (which is ten percent (10%) of the 55,000 cubic yards of soil extending from the ground surface down to the proposed construction excavation depth of 18 feet), would need to be disposed of or sent to a soil recycling facility as TPH contaminated soil. The model further estimates that the remaining 90% of soil (approximately 50,000 yards) of the excavated volume of soil would not need to be disposed of as TPH contaminated soil because the TPH concentrations in that volume are likely below RWQCB SSLs.

The 5,500 yards of TPH-impacted soil excavated during construction must be either disposed of at a licensed Class III disposal facility, at a licensed soil recycling or disposal facility permitted to accept such soil, or treated on-site in a licensed treatment process, or be used as landfill cover at a licensed facility.

6.1.1 SCAQMD Rule 1166

The excavation or grading of soil at a site containing VOC material including gasoline, diesel, crude oil, lubricant, waste oil, adhesive, paint, stain, solvent, resin, monomer, and/or any other material containing VOCs is subject to Rule 1166, and would require a mitigation plan ("1166 permit"). Such a plan would require segregation of the soil during excavation based on the soil analytical data, and field vapor readings generated by a properly calibrated photo ionization detector ("PID") conducted during excavation, compliance with South Coast Air

Quality Management District (SCAQMD) VOC emissions mitigation requirements, and soil management and health and safety plans to ensure worker health and safety. Soil that shows vapors exceeding 50 ppm on the PID will need to properly disposed of or treated off-site, as required by Rule 1166. Based on experience at other sites, the 1166 requirement could increase the volume of contaminated soil above the estimated 5,500 cubic yards estimated by the model. However, the probability of a significant increase above 5,500 yards may be mitigated by the minimally volatile nature of the TPH detected at the Site.

6.2 Groundwater

The perched groundwater beneath the Site is impacted with TPH-d. Given that groundwater is encountered at depths at about 20 feet bgs or deeper and excavation for the proposed development does not exceed 18 feet bgs, it is not anticipated that groundwater will be encountered during redevelopment. However, if groundwater is encountered and must be disposed of, then treatment will be required prior to discharge to the storm drain or the sanitary sewer.

6.3 Soil Vapor

TCE was reported in soil vapor in two samples collected from the northeastern portion of the Site in an area showing soil contamination exceeding unrestricted use levels. No source for the TCE was found in soil or groundwater. No other VOCs or TPH-g were detected above regulatory screening criteria in any of the three soil vapor samples collected during the investigation.

Because the Site is located within the Los Angeles designated Methane Zone, methane mitigation in compliance with parameters of the Los Angeles Department of Building and Safety will be required, which if properly designed, can be protective of human health and safety by mitigating any potential vapor intrusion and human health risks related to impacted groundwater or off-gassing from any impacted soil located below the total excavation depth.

7.0 LIMITATIONS

The purpose of this study is to reasonably characterize existing site conditions given practical access constraints. In performing such a study, it is understood that a balance must be struck between a reasonable inquiry into the site conditions and an exhaustive analysis of each conceivable environmental characteristic. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to describe all conditions of interest at a given site. If conditions have not been identified during the study, such a finding should not therefore be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface exploratory work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

8.0 REFERENCES

Bowyer Environmental Consulting, Inc. (BEC), 2015. *Remedial Progress, Risk Evaluation and Soil Closure Request Report – 2nd Quarter 2015, Former wardrobe Cleaners, 8389 West 3rd Street, Los Angeles, California.* July 21.

Department of Toxic Substances Control (DTSC), 2001. *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance),* Department of Toxic Substances Control, California Environmental Protection Agency, October 2001.

Krazan & Associates, Inc. (KAI), 2017. Preliminary Summary of Findings, Proposed Mixed Use Development, SEC of 3rd and Fairfax, Los Angeles, California, June 19.

Northgate Environmental Management, Inc. (Northgate) 2018. *Phase I Environmental Site Assessment, 3rd and Fairfax – 6300 to 6332 West 3rd Street, Los Angeles, California*. January 30.

Regional Water Quality Control Board (RWQCB), 1996. *Interim Site Assessment & Cleanup Guidebook*. May.

The Reynolds Group (TRG), 2013. *Yoshioka Property, 371 South Fairfax Avenue, Los Angeles, California, LARWQCB No. 900360107, CUF No. 4202, Global ID No. T0603700891*. January 18.

TABLES

TABLE 1
Summary of Soil Analytical Results - Total Petroleum Hydrocarbons

			Total Petroleum Hydrocarbons EPA Method 8015B		
Sample Identification	**Sample Top (Feet bgs)**	**Date Sampled**	**C6-C12 (TPH-g)**	**C13-C28 (TPH-d)**	**C29-C40 (TPH-mo)**
			mg/kg	**mg/kg**	**mg/kg**
B-1-1.0	1	1/29/2018	<0.350	87	920
B-1- 10.0	10	1/29/2018	<0.430	17	<10
B-1- 20.0	20	1/29/2018	<0.290	<10	<10
B-2- 1.0	1	1/29/2018	<0.380	**260**	860
B-2- 10.0	10	1/29/2018	<0.350	<10	<10
B-2- 20.0	20	1/29/2018	<0.410	11	<10
B-3-1.0	1	1/30/2018	<0.350	33	180
B-3-10.0	10	1/30/2018	<0.350	18	<10
B-3-20.0	20	1/30/2018	<0.390	14	<10
B- 4-1.0	1	1/31/2018	<0.400	**210**	**1,300**
B- 4-10.0	10	1/31/2018	<0.500	<10	<10
B- 4-15.0	15	1/31/2018	<0.400	**1,100**	**1,000**
B- 4-20.0	20	1/31/2018	<0.330	31	42
B-5-1.0	1	1/30/2018	<0.330	81	280
B-5-10.0	10	1/30/2018	0.380	68	65
B-5-20.0	20	1/30/2018	<0.360	<10	<10
B-6- 1.0	1	1/29/2018	<0.320	**160**	**1,000**
B-6- 10.0	10	1/29/2018	<0.380	<10	<10
B-6- 20.0	20	1/29/2018	<0.330	<10	<10
B-7-1.0	1	1/30/2018	<10	<10	67
B-7-10.0	10	1/30/2018	<10	<10	<10
B-7-20.0	20	1/30/2018	<10	<10	<10
B- 8-1.0	1	1/31/2018	<10	35	120
B- 8-10.0	10	1/31/2018	21	**180**	150
B- 8-15.0	15	1/31/2018	<10	46	48
B- 8-20.0	20	1/31/2018	<10	<10	<10
B-9-1.0	1	1/30/2018	<10	<10	110
B-9-10.0	10	1/30/2018	<10	<10	<10
B-9-20.0	20	1/30/2018	<10	31	20
B- 10-1.0	1	1/31/2018	<0.370	<10	63
B- 10-10.0	10	1/31/2018	<0.420	<10	<10
B- 10-20.0	20	1/31/2018	<0.440	25	11
B-11- 1.0	1	1/29/2018	<0.320	**180**	**1,100**
B-11- 10.0	10	1/29/2018	0.500	**770**	780
B-11- 20.0	20	1/29/2018	<0.340	<10	<10

TABLE 1
Summary of Soil Analytical Results - Total Petroleum Hydrocarbons

Sample Identification	Sample Top (Feet bgs)	Date Sampled	Total Petroleum Hydrocarbons EPA Method 8015B		
			C6-C12 (TPH-g)	C13-C28 (TPH-d)	C29-C40 (TPH-mo)
			mg/kg	mg/kg	mg/kg
B- 12-1.0	1	1/31/2018	23	**260**	950
B- 12-10.0	10	1/31/2018	<10	46	<10
B- 12-20.0	20	1/31/2018	<10	<10	<10
B-13-1.0	1	1/30/2018	<0.320	**250**	890
B-13-10.0	10	1/30/2018	<0.390	22	<10
B-13-15.0	15	1/30/2018	<0.350	15	<10
B-14-1.0	1	1/30/2018	<0.340	<10	49
B-14-10.0	10	1/30/2018	<0.500	24	110
B-14-20.0	20	1/30/2018	<0.640	<10	<10
B- 15-1.0	1	1/31/2018	<0.370	**490**	**1,200**
B- 15-10.0	10	1/31/2018	<0.430	47	<10
B- 15-20.0	20	1/31/2018	<0.360	<10	<10
REGULATORY SCREENING CRITERIA					
RWQCB TPH Max SSL <20 feet Above Groundwater			100	100	1,000
EPA Residential Soil RSLs			82	110	2,500
EPA Commercial Soil RSLs			420	600	33,000
DTSC Residential Soil SLs (cancer endpoint)			NE	NE	NE
DTSC Commercial Soil SLs (cancer endpoint)			NE	NE	NE

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
Bold	Detected above one or more regulatory screening levels
bgs	Below ground surface
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
mg/kg	Milligrams per kilogram (units)
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles Region
SL	Screening levels, updated January 2018
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwaterless than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.
TPH	Total petroleum hydrocarbons
TPH-d	Total petroleum hydrocarbons quantified as diesel
TPH-g	Total petroleum hydrocarbons quantified as gasoline
TPH-mo	Total petroleum hydrocarbons quantified as motor oil

TABLE 2
Summary of Soil Analytical Results - Volatile Organic Compounds, Semi-Volatile Organic Compounds, Polychlorinated Biphenyls, Organochlorine Pesticides, and Asbestos

			Volatile Organic Compounds EPA Method 8260B						SVOCs EPA 8270C	PCBs EPA 8082	PLM EPA 8081A	Asbestos
Sample Identification	Sample Top (Feet bgs)	Date Sampled	Benzene	Ethylbenzene	m,p-Xylene	Toluene	sec-Butylbenzene	Other VOCs	SVOCs	PCBs	OCPs	Total Asbestos
			ug/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	%
B-1-1.0	1	1/29/2018	<1.4	<1.4	<2.9	14	<1.4	ND	ND	ND	ND	ND
B-1- 10.0	10	1/29/2018	<1.7	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	--	--
B-1- 20.0	20	1/29/2018	<1.5	<1.5	<3.1	<1.5	<1.5	ND	ND	ND	--	--
B-2- 1.0	1	1/29/2018	<1.5	<1.5	<3.1	<1.5	<1.5	ND	ND	ND	ND	ND
B-2- 10.0	10	1/29/2018	4.1	<1.6	<3.2	<1.6	<1.6	ND	ND	ND	--	--
B-2- 20.0	20	1/29/2018	<2.4	<2.4	<4.7	<2.4	<2.4	ND	ND	ND	--	--
B-3-1.0	1	1/30/2018	<1.7	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	ND	ND
B-3-10.0	10	1/30/2018	2.2	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-3-20.0	20	1/30/2018	7.6	<1.9	<3.8	2.3	<1.9	ND	ND	ND	--	--
B- 4-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 4-10.0	10	1/31/2018	3.2	<1.8	<3.5	<1.8	<1.8	ND	ND	ND	--	--
B- 4-15.0	15	1/31/2018	2.4	<2.2	<4.5	<2.2	<2.2	ND	ND	--	--	--
B- 4-20.0	20	1/31/2018	3.3	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-5-1.0	1	1/30/2018	<1.7	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	ND	ND
B-5-10.0	10	1/30/2018	3.6	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-5-20.0	20	1/30/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-6- 1.0	1	1/29/2018	<1.9	<1.9	<3.9	<1.9	<1.9	ND	ND	ND	ND	ND
B-6- 10.0	10	1/29/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-6- 20.0	20	1/29/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-7-1.0	1	1/30/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B-7-10.0	10	1/30/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-7-20.0	20	1/30/2018	<2.9	<2.9	<5.8	<2.9	<2.9	ND	ND	ND	--	--
B- 8-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 8-10.0	10	1/31/2018	<1.8	<1.8	<3.6	<1.8	2.0	ND	ND	ND	--	--
B- 8-15.0	15	1/31/2018	<1.8	<1.8	<3.6	<1.8	5.8	ND	ND	--	--	--
B- 8-20.0	20	1/31/2018	3.2	<1.8	<3.7	<1.8	<1.8	ND	ND	ND	--	--
B-9-1.0	1	1/30/2018	<2.0	<2.0	<4.1	<2.0	<2.0	ND	ND	ND	ND	ND
B-9-10.0	10	1/30/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	--	--
B-9-20.0	20	1/30/2018	<2.0	<2.0	<4.0	<2.0	<2.0	ND	ND	ND	--	--
B- 10-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 10-10.0	10	1/31/2018	1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B- 10-20.0	20	1/31/2018	1.9	<1.7	<3.5	<1.7	<1.7	ND	ND	ND	--	--
B-11- 1.0	1	1/29/2018	<1.8	2.1	4.6	<1.8	<1.8	ND	ND	ND	ND	ND
B-11- 10.0	10	1/29/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-11- 20.0	20	1/29/2018	2.1	<1.7	<3.3	<1.7	<1.7	ND	ND	ND	--	--
B- 12-1.0	1	1/31/2018	<1.9	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	ND	ND
B- 12-10.0	10	1/31/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B- 12-20.0	20	1/31/2018	<1.8	<1.8	<3.6	<1.8	<1.8	ND	ND	ND	--	--
B-13-1.0	1	1/30/2018	<1.7	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	ND	ND
B-13-10.0	10	1/30/2018	2.4	<2.1	<4.2	<2.1	<2.1	ND	ND	ND	--	--
B-13-15.0	15	1/30/2018	4.4	<1.7	<3.4	<1.7	<1.7	ND	ND	ND	--	--
B-14-1.0	1	1/30/2018	<1.6	<1.6	<3.3	<1.6	<1.6	ND	ND	ND	ND	ND
B-14-10.0	10	1/30/2018	<2.1	<2.1	<4.3	<2.1	<2.1	ND	ND	ND	--	--
B-14-20.0	20	1/30/2018	<2.0	<2.0	<4.0	<2.0	<2.0	ND	ND	ND	--	--
B- 15-1.0	1	1/31/2018	<1.8	<1.8	<3.7	<1.8	<1.8	ND	ND	ND	ND	ND
B- 15-10.0	10	1/31/2018	2.1	<1.9	<3.8	<1.9	<1.9	ND	ND	ND	--	--
B- 15-20.0	20	1/31/2018	<2.6	<2.6	<5.2	<2.6	<2.6	ND	ND	ND	--	--

TABLE 2
Summary of Soil Analytical Results - Volatile Organic Compounds, Semi-Volatile Organic Compounds, Polychlorinated Biphenyls, Organochlorine Pesticides, and Asbestos

			Volatile Organic Compounds EPA Method 8260B						SVOCs EPA 8270C	PCBs EPA 8082	PLM EPA 8081A	Asbestos
Sample Identification	**Sample Top (Feet bgs)**	**Date Sampled**	**Benzene**	**Ethylbenzene**	**m,p-Xylene**	**Toluene**	**sec-Butylbenzene**	**Other VOCs**	**SVOCs**	**PCBs**	**OCPs**	**Total Asbestos**
			ug/kg	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**%**
REGULATORY SCREENING CRITERIA												
RWQCB TPH Maximum SSLs for Sample Top at 1 Foot bgs			14	1,953	4,883	419	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 10 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 15 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
RWQCB TPH Maximum SSLs for Sample Top at 20 Foot bgs			9	1,260	3,150	270	NE	NA	NA	NA	NA	NA
EPA Residential Soil RSLs			1,200	5,800	550,000	4,900,000	7,800,000	NA	NA	NA	NA	NA
EPA Commercial Soil RSLs			5,100	25,000	2,400,000	47,000,000	120,000,000	NA	NA	NA	NA	NA
DTSC Residential Soil SLs (cancer endpoint)			330	NE	NE	1,100,000*	2,200,000*	NA	NA	NA	NA	NA
DTSC Commercial Soil SLs (cancer endpoint)			1,400	NE	NE	5,400,000*	12,000,000*	NA	NA	NA	NA	NA

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
*	Noncancer endpoint value used as cancer endpoint value was not established
bgs	Below ground surface
Bold	Detected above one or more regulatory screening levels
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
NA	Not available
ND	Not detected
NE	Not established
OCPs	Organochlorine pesticides
PCBs	Polychlorinated biphenyls
PLM	Polarized light microscopy
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles Region
SL	Screening levels, updated January 2018
SSL	RWQCB Maximum Soil Screening Levels - Distance to groundwater less than 20 feet, Interim Site Assessment Cleanup Guidance, May 1996.
SVOCs	Semi-volatile organic compounds
TPH	Totsl petroleum hydrocarbons
µg/kg	Micrograms per kilogram (units)
VOCs	Volatile organic compounds

TABLE 3
Summary of Soil Analytical Results - Title 22 Metals

Sample Identification	Sample Top (Feet bgs)	Date Sampled	Title 22 Metals EPA Method 6010B															Mercury EPA 7471A
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B-1-1.0	1	1/29/2018	<3.0	<5.0	110	<1.0	<2.0	26	13	9.8	<3.0	<5.0	16	<5.0	<2.0	<2.0	46	51	<0.1
B-1- 10.0	10	1/29/2018	<3.0	<5.0	46	<1.0	<2.0	22	12	11	<3.0	<5.0	23	<5.0	<2.0	<2.0	36	36	<0.1
B-1- 20.0	20	1/29/2018	<3.0	<5.0	47	<1.0	<2.0	17	6.7	5.4	<3.0	<5.0	11	<5.0	<2.0	<2.0	19	16	<0.1
B-2- 1.0	1	1/29/2018	<3.0	<5.0	56	<1.0	<2.0	22	12	5.0	<3.0	<5.0	13	<5.0	<2.0	<2.0	39	32	<0.1
B-2- 10.0	10	1/29/2018	<3.0	<5.0	54	<1.0	<2.0	23	12	9.3	<3.0	<5.0	19	<5.0	<2.0	<2.0	26	33	<0.1
B-2- 20.0	20	1/29/2018	<3.0	<5.0	91	<1.0	<2.0	35	17	15	<3.0	<5.0	26	<5.0	<2.0	<2.0	34	37	<0.1
B-3-1.0	1	1/30/2018	<3.0	<5.0	79	<1.0	<2.0	15	9.6	8.5	<3.0	<5.0	9.3	<5.0	<2.0	<2.0	31	27	<0.1
B-3-10.0	10	1/30/2018	<3.0	<5.0	60	<1.0	<2.0	22	11	8.0	<3.0	<5.0	21	<5.0	<2.0	<2.0	27	34	<0.1
B-3-20.0	20	1/30/2018	<3.0	<5.0	39	<1.0	<2.0	18	8.9	8.1	<3.0	<5.0	16	<5.0	<2.0	<2.0	27	30	<0.1
B- 4-1.0	1	1/31/2018	<3.0	<5.0	84	<1.0	<2.0	19	11	10	<3.0	<5.0	13	<5.0	<2.0	<2.0	36	46	<0.1
B- 4-10.0	10	1/31/2018	<3.0	<5.0	39	<1.0	<2.0	19	9.0	7.3	<3.0	<5.0	15	<5.0	<2.0	<2.0	27	24	<0.1
B-5-1.0	1	1/30/2018	<3.0	<5.0	110	<1.0	<2.0	19	11	9.2	<3.0	<5.0	13	<5.0	<2.0	<2.0	37	47	<0.1
B-5-10.0	10	1/30/2018	<3.0	<5.0	76	<1.0	<2.0	17	9.4	8.2	<3.0	<5.0	17	<5.0	<2.0	<2.0	25	36	<0.1
B-5-20.0	20	1/30/2018	<3.0	<5.0	35	<1.0	<2.0	16	7.2	7.2	<3.0	<5.0	12	<5.0	<2.0	<2.0	25	22	<0.1
B-6- 1.0	1	1/29/2018	<3.0	<5.0	79	<1.0	<2.0	27	13	12	<3.0	<5.0	15	<5.0	<2.0	<2.0	55	55	<0.1
B-6- 10.0	10	1/29/2018	<3.0	<5.0	71	<1.0	<2.0	19	9.1	15	<3.0	<5.0	20	<5.0	<2.0	<2.0	21	38	<0.1
B-6- 20.0	20	1/29/2018	<3.0	<5.0	120	<1.0	<2.0	19	8.8	12	<3.0	<5.0	18	<5.0	<2.0	<2.0	31	35	<0.1
B-7-1.0	1	1/30/2018	<3.0	<5.0	75	<1.0	<2.0	22	12	8.0	<3.0	<5.0	15	<5.0	<2.0	<2.0	42	45	<0.1
B-7-10.0	10	1/30/2018	<3.0	<5.0	37	<1.0	<2.0	15	5.5	5.0	<3.0	<5.0	12	<5.0	<2.0	<2.0	20	17	<0.1
B-7-20.0	20	1/30/2018	<3.0	<5.0	38	<1.0	<2.0	12	5.0	5.1	<3.0	<5.0	13	<5.0	<2.0	<2.0	14	11	<0.1
B- 8-1.0	1	1/31/2018	<3.0	<5.0	92	<1.0	<2.0	20	9.5	8.5	<3.0	<5.0	14	<5.0	<2.0	<2.0	33	33	<0.1
B- 8-10.0	10	1/31/2018	<3.0	<5.0	53	<1.0	<2.0	9.5	6.4	6.0	<3.0	<5.0	7.8	<5.0	<2.0	<2.0	21	20	<0.1
B- 8-20.0	20	1/31/2018	<3.0	<5.0	140	<1.0	<2.0	30	12	15	<3.0	<5.0	21	<5.0	<2.0	<2.0	34	49	<0.1
B-9-1.0	1	1/30/2018	<3.0	<5.0	83	<1.0	<2.0	6.5	6.2	16	<3.0	<5.0	6.1	<5.0	<2.0	<2.0	16	38	<0.1
B-9-10.0	10	1/30/2018	<3.0	<5.0	55	<1.0	<2.0	19	8.3	11	<3.0	<5.0	18	<5.0	<2.0	<2.0	23	33	<0.1
B-9-20.0	20	1/30/2018	<3.0	<5.0	79	<0.91	2.6	14	11	8.6	<2.7	<4.5	16	<4.5	<1.8	<1.8	19	28	<0.1
B- 10-1.0	1	1/31/2018	<3.0	<5.0	86	<1.0	<2.0	19	10	9.6	<3.0	<5.0	12	<5.0	<2.0	<2.0	39	54	<0.1
B- 10-10.0	10	1/31/2018	<3.0	<5.0	180	<1.0	<2.0	18	11	6.4	<3.0	<5.0	10	<5.0	<2.0	<2.0	41	56	<0.1
B- 10-20.0	20	1/31/2018	<3.0	<5.0	35	<1.0	<2.0	11	6.6	7.5	<3.0	<5.0	9.7	<5.0	<2.0	<2.0	18	21	<0.1
B-11- 1.0	1	1/29/2018	<3.0	<5.0	87	<1.0	<2.0	18	11	8.5	<3.0	<5.0	12	<5.0	<2.0	<2.0	36	35	<0.1
B-11- 10.0	10	1/29/2018	<3.0	<5.0	73	<1.0	<2.0	26	23	12	<3.0	<5.0	29	<5.0	<2.0	<2.0	33	37	<0.1
B-11- 20.0	20	1/29/2018	<3.0	<5.0	79	<1.0	<2.0	29	15	14	<3.0	<5.0	26	<5.0	<2.0	<2.0	52	47	<0.1

TABLE 3
Summary of Soil Analytical Results - Title 22 Metals

Sample Identification	Sample Top (Feet bgs)	Date Sampled	Title 22 Metals EPA Method 6010B															Mercury EPA 7471A
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B- 12-1.0	1	1/31/2018	<3.0	<5.0	91	<1.0	<2.0	18	9.6	11	<3.0	<5.0	14	<5.0	<2.0	<2.0	33	34	<0.1
B- 12-10.0	10	1/31/2018	<3.0	<5.0	51	<1.0	<2.0	27	4.8	4.6	<3.0	<5.0	9.8	<5.0	<2.0	<2.0	22	20	<0.1
B- 12-20.0	20	1/31/2018	<3.0	<5.0	81	<1.0	<2.0	18	14	13	<3.0	<5.0	15	<5.0	<2.0	<2.0	23	30	<0.1
B-13-1.0	1	1/30/2018	<3.0	<5.0	64	<1.0	<2.0	20	12	6.6	<3.0	<5.0	13	<5.0	<2.0	<2.0	40	32	<0.1
B-13-10.0	10	1/30/2018	<3.0	<5.0	58	<1.0	<2.0	19	11	10	<3.0	<5.0	20	<5.0	<2.0	<2.0	30	32	<0.1
B-13-15.0	15	1/30/2018	<3.0	<5.0	370	<1.0	<2.0	18	19	11	<3.0	<5.0	28	<5.0	<2.0	<2.0	46	34	<0.1
B-14-1.0	1	1/30/2018	<3.0	<5.0	78	<1.0	<2.0	28	15	6.1	<3.0	<5.0	18	<5.0	<2.0	<2.0	50	41	<0.1
B-14-10.0	10	1/30/2018	<3.0	<5.0	39	<1.0	<2.0	19	8.3	7.3	<3.0	<5.0	18	<5.0	<2.0	<2.0	20	19	<0.1
B-14-20.0	20	1/30/2018	<3.0	<5.0	33	<1.0	<2.0	14	7.2	5.6	<3.0	<5.0	12	<5.0	<2.0	<2.0	20	16	<0.1
REGULATORY SCREENING CRITERIA																			
EPA Residential Soil RSLs			31	0.68	15,000	160	71	NE	23	3,100	80 [1]	390	1,500	390	390	0.78	390	23,000	10
EPA Commercial Soil RSLs			470	3.0	220,000	2,300	980	NE	350	47,000	320 [1]	5,800	22,000	5,800	5,800	12	5,800	350,000	43
DTSC Residential Soil SLs (cancer endpoint)			NE	0.11	1,600	NE	2,100	120,000	NE	NE	80*	NE	15,000	NE	390*	NE	390*	NE	1.0*
DTSC Commercial Soil SLs (cancer endpoint)			NE	0.36	6,900	NE	9,300	1,800,000	NE	NE	320*	NE	54,000	NE	1,500*	NE	1,000*	NE	4.5*

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
[1]	California Human Health Screening Level (CHHSL) used for lead
bgs	Below ground surface
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
mg/kg	Milligrams per kilogram (units)
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
SL	Screening levels, updated January 2018

TABLE 4
Summary of Groundwater Analytical Results - Total Petroleum Hydrocarbons, Volatile Organic Compounds, and Title 22 Metals

			Total Petroleum Hydrocarbons EPA Method 8015B			Volatile Organic Compounds EPA Method 8260B		Title 22 Metals EPA Method 6010B/7471		
Sample Identification	**Sample Depth (Feet bgs)**	**Date Sampled**	**C13-C28 (TPH-d) Extractable**	**C29-C40 (TPH-mo) Extractable**	**C6-C12 (TPH-g) Purgeable**	**Toluene**	**Other VOCs**	**Barium**	**Molybdenum**	**Other Metals**
			µg/L	**µg/L**	**µg/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
B-2	21	1/29/2018	**520**	<500	<50	0.92	ND	150	<50	ND
B-3	23	1/30/2018	**2,000**	<500	<50	<0.50	ND	110	62	ND
B-4	23	1/31/2018	**1,700**	<500	<50	<0.50	ND	--	--	--
B-11	22	1/30/2018	<500	<500	<50	<0.50	ND	--	--	--
B-13	20	1/30/2018	**1,200**	<500	<50	<0.50	ND	--	--	--
B-14	20	1/30/2018	**710**	<500	<50	<0.50	ND	--	--	--
REGULATORY SCREENING CRITERIA										
California MCL			NE	NE	NE	1,000	NA	2,000	NA	NA
EPA Tapwater RSL			5.5	31	800	1,100	NA	3,800	100	NA

Notes/Abbreviations:

<	Not detected at or above the indicated laboratory method reporting limit
--	Not tested
Bold	Detected above one or more regulatory screening levels
bgs	Below ground surface
EPA	United States Environmental Protection Agency
MCL	Maximum contaminant level, California RWQCB, updated November 2017
NA	Not available
ND	Not detected
NE	Not established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
RWQCB	Regional Water Quality Control Board - Los Angeles region
TPH	Total petroleum hydrocarbons
TPH-d	Total petroleum hydrocarbons quantified as diesel
TPH-g	Total petroleum hydrocarbons quantified as gasoline
TPH-mo	Total petroleum hydrocarbons quantified as motor oil
µg/L	Micrograms per liter (units)
VOCs	Volatile organic compounds

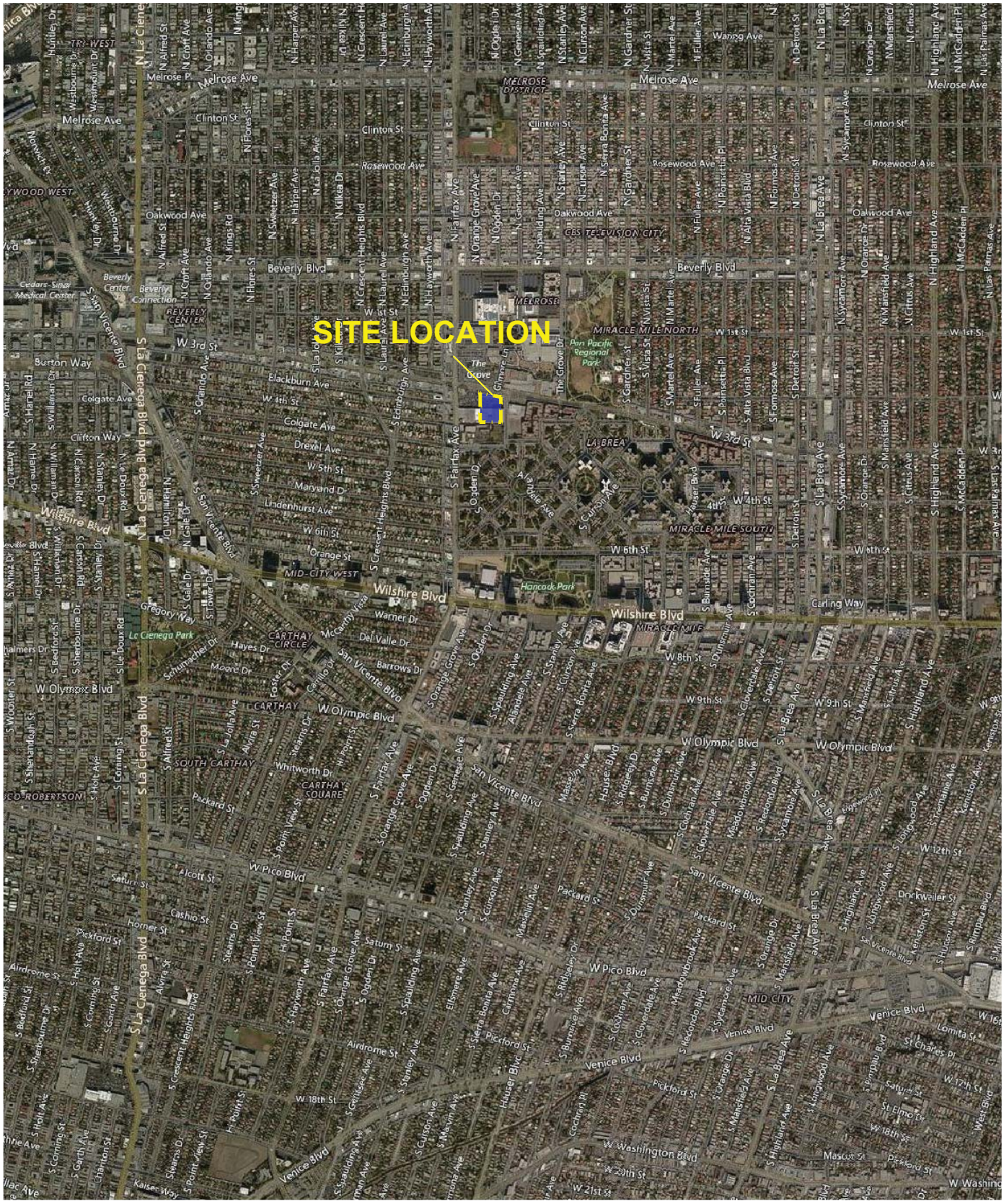
TABLE 5
Summary of Soil Vapor Analytical Results - Total Petroleum Hydrocarbons and Volatile Organic Compounds

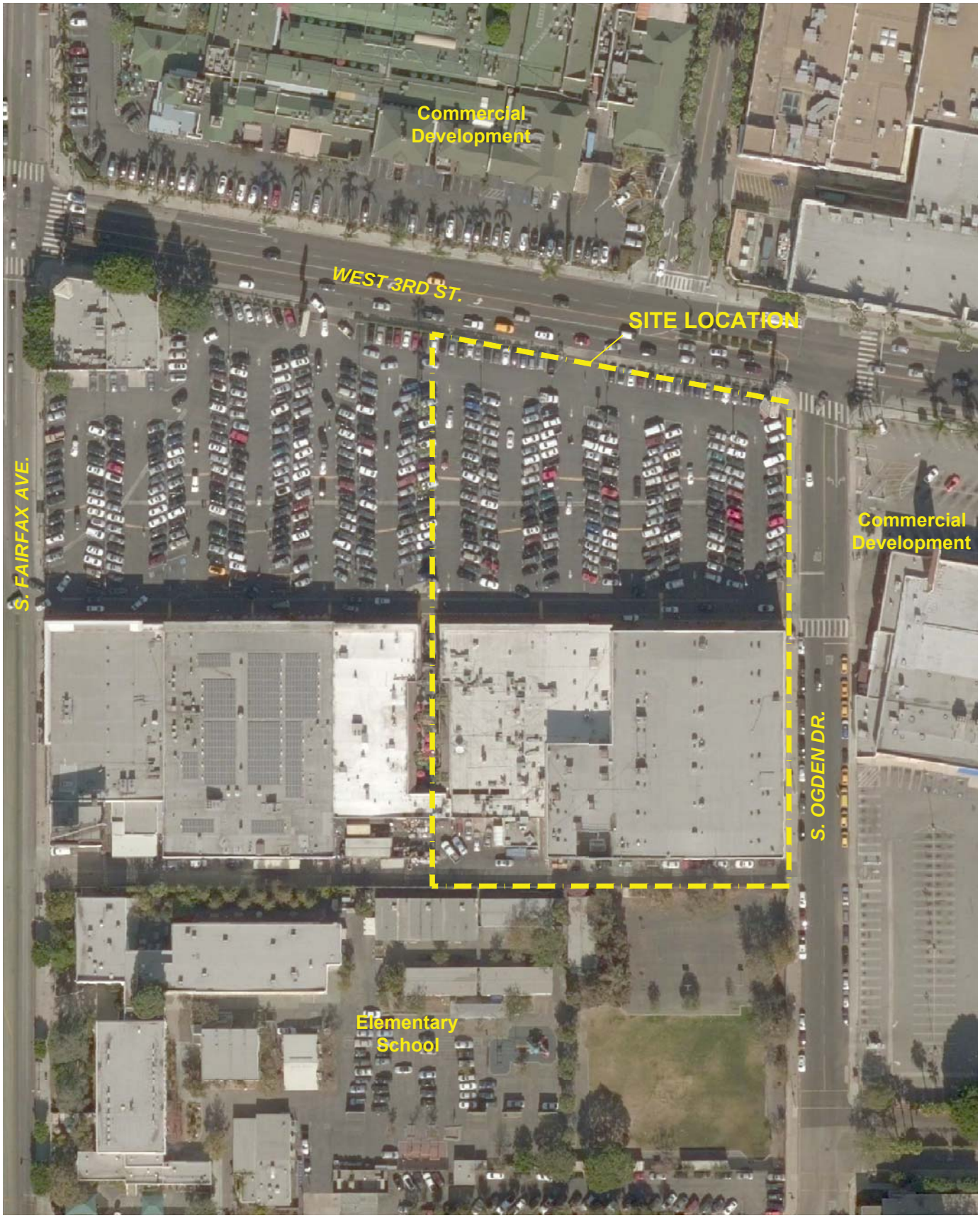
			Volatile Organic Compounds EPA Method TO-15					TPH-g EPA Method TO-3/TO-14m
Sample Identification	**Sample Top**	**Date Sampled**	**Cyclohexane**	**Isopropyl alcohol**	**Toluene**	**Trichloroethene**	**Other VOCs**	**TPH-g**
			µg/m³	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**	**µg/m³**
B-4-15.0	15	1/31/2018	<3.5	<13	15	***17***	ND	11,600
B-6-10.0	10	1/31/2018	1,100	3,100	<190	<270	ND	<7,170
B-15-25.0	25	1/31/2018	<170	<130	<190	***770***	ND	<7,170
REGULATORY SCREENING CRITERIA								
Residential Indoor Air RSLs[1]			6,300	210	5,200	0.48	NA	31
Attenuation Factor			0.002	0.002	0.002	0.002	NA	0.002
Calculated EPA Residential Soil Vapor RSLs			**3,150,000**	**105,000**	**2,600,000**	**240**	**NA**	**15,500**
Commercial/Industrial Indoor Air RSLs[1]			26,000	880	22,000	3.0	NA	130
Attenuation Factor			0.001	0.001	0.001	0.001	NA	0.001
Calculated EPA Industrial Soil Vapor RSLs			**26,000,000**	**880,000**	**22,000,000**	**3,000**	**NA**	**130,000**
DTSC Residential SLs (cancer endpoint)[1]			NE	NE	310*	NE	NA	NA
Attenuation Factor			0.002	0.002	0.002	0.002	NA	NA
Calculated DTSC Residential Soil Vapor SLs			**NE**	**NE**	**155,000**	**NE**	**NA**	**NA**
DTSC Commercial/Industrial SLs (cancer endpoint)[1]			NE	NE	1,300*	NE	NA	NA
Attenuation Factor			0.001	0.001	0.001	0.001	NA	NA
Calculated DTSC Industrial Soil Vapor SLs			**NE**	**NE**	**1,300,000**	**NE**	**NA**	**NA**

Notes/Abbreviations:

*	Non cancer endpoint value used as cancer endpoint value not established
Bold	Calculated screening criteria for soil vapor based on quotient of screening criteria for air and attenuation factor
Bold	Exceedance of screening criteria
[1]	Value provided is for indoor air, not soil vapor
bgs	Below ground surface
DTSC	Department of Toxic Substance Control
EPA	United States Environmental Protection Agency
NA	Not available
ND	Not detected
NE	Note Established
RSL	EPA Region 9 Regional Screening Level, updated November 2017
SL	Screening Levels, updated January 2018
µg/m³	Units are in micrograms per meter cubed
VOCs	Volatile organic compounds

FIGURES


SITE LOCATION
The Grove
Melrose Ave
Beverly Blvd
W 3rd St
W 1st St
W 4th St
W 6th St
Wilshire Blvd
W Olympic Blvd
W Pico Blvd
Venice Blvd
W 18th St
W Washington Blvd
W 21st St
Clinton St
Rosewood Ave
Oakwood Ave
Colgate Ave
Drexel Ave
Maryland Dr
Lindenhurst Ave
Orange St
Warner Dr
Del Valle Dr
Barrows Dr
Hayes Dr
Moore Dr
Whitworth Dr
Peckard St
Alcott St
Saturn St
Cashio St
Horner St
Airdrome St
Pickford St
Venice Blvd
Waring Ave
Carling Way
Gregory Way
Schumacher Dr
Foster Ct
Camillo St
Stearns Dr
Point View St
Ogden Dr
Spaulding Ave
Stanley Ave
Curson Ave
Fairfax Ave
Orange Grove Ave
Genesee Ave
Sierra Bonita Ave
Hauser Blvd
Ridgeley Dr
Burnside Ave
Dunsmuir Ave
Cloverdale Ave
Redondo Blvd
Sycamore Ave
Mansfield Ave
Highland Ave
La Brea Ave
Cochran Ave
Detroit St
Formosa Ave
Alta Vista Blvd
Martel Ave
Visalia St
Gardner St
Fuller Ave
Poinsettia Pl
Orange Dr
Citrus Ave
Las Palmas Ave
McCadden Pl
Sweetzer Ave
Harper Ave
Crescent Heights Blvd
Laurel Ave
Edinburgh Ave
Hayworth Ave
Kilkea Dr
La Jolla Ave
Alfred St
Croft Ave
Orlando Ave
Kings Rd
Flores St
Gale Dr
Stanley Dr
Sherbourne Dr
Bedford St
Doheny Rd
Beverly Glen Blvd
Westbourne Dr
Huntley Dr
Hamel Rd
Burton Way
Clifton Way
Wilshire Blvd
Olympic Blvd
Melrose Ave
Rosewood Ave
Oakwood Ave
Beverly Blvd
Fairfax Ave
La Cienega Blvd
San Vicente Blvd
Crescent Heights Blvd
Sierra Bonita Ave
Spaulding Ave
Ogden Dr
Orange Grove Ave
Genesee Ave
Stanley Ave
Curson Ave
Fairfax Ave
Highland Ave
La Brea Ave
Cochran Ave
Detroit St
Formosa Ave
Alta Vista Blvd
Martel Ave
Visalia St
Gardner St
Fuller Ave
Poinsettia Pl
Orange Dr
Citrus Ave
Las Palmas Ave
McCadden Pl
Sycamore Ave
Mansfield



0 60 120

Scale (Feet)

N

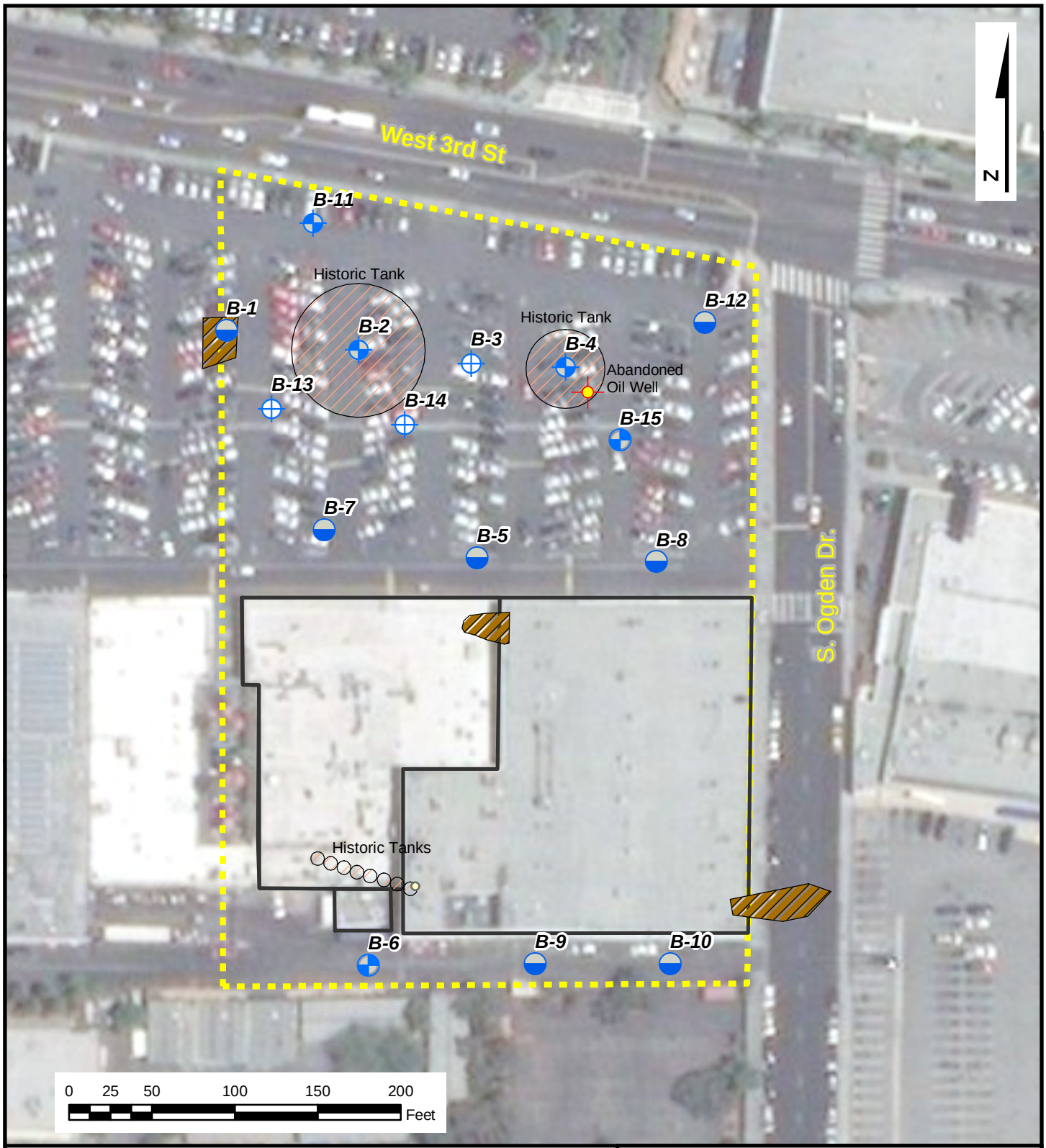
FIGURE 2
Site Plan

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15

G:\Projects\Temp\2047 - Wactor & Wick\2047.15\Phase I ESA\Figure 2 - Site Map.dwg Layout: 8.5x11-P User: oleg Dec 21, 2017 - 11:02am



Legend

SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- Abandoned Oil Well

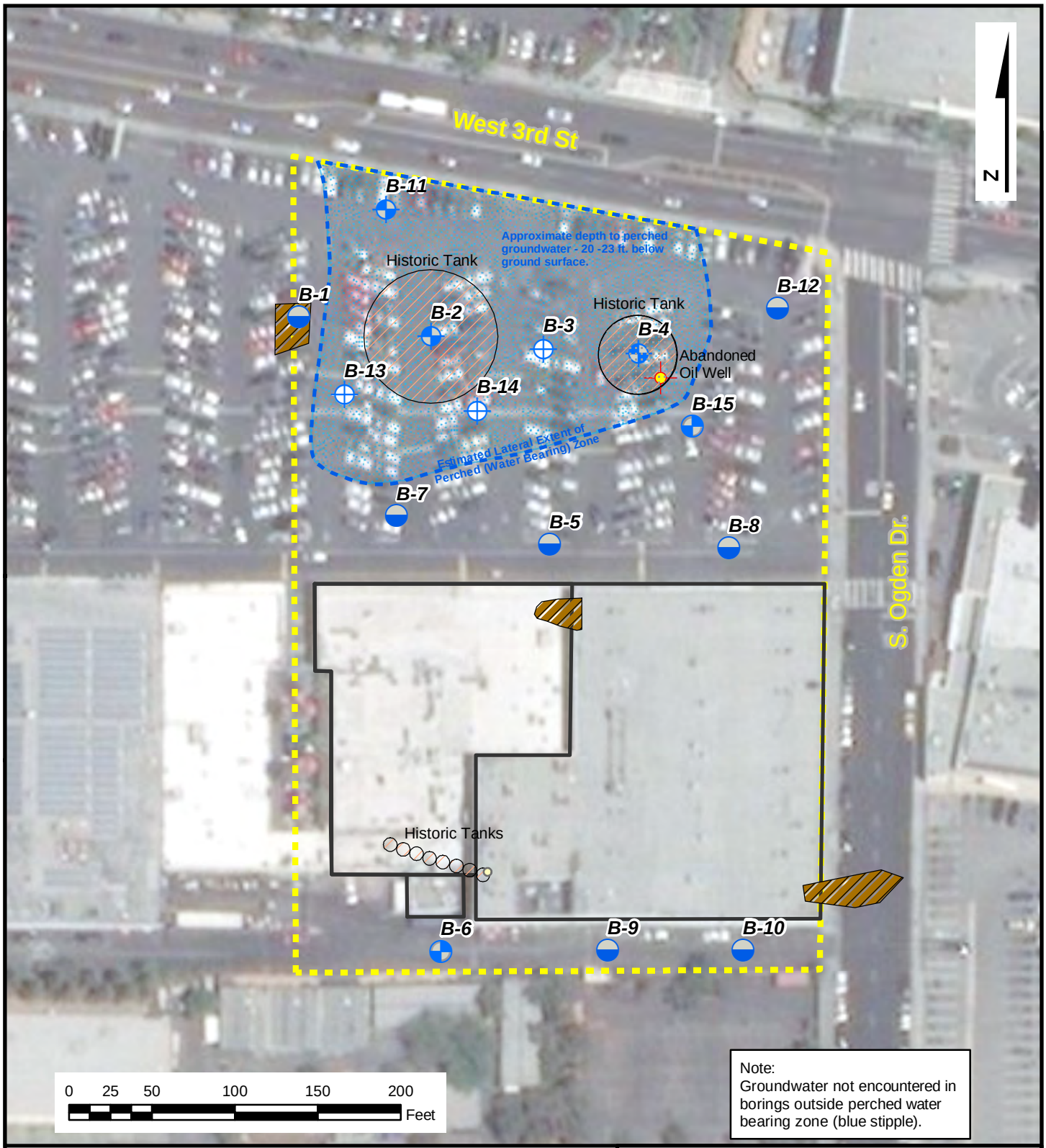
Figure 3

Boring Location Map

3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:
2/20/2018	2047.15

northgate environmental management, inc.



Legend

SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- Perched Water Bearing Zone
- Abandoned Oil Well

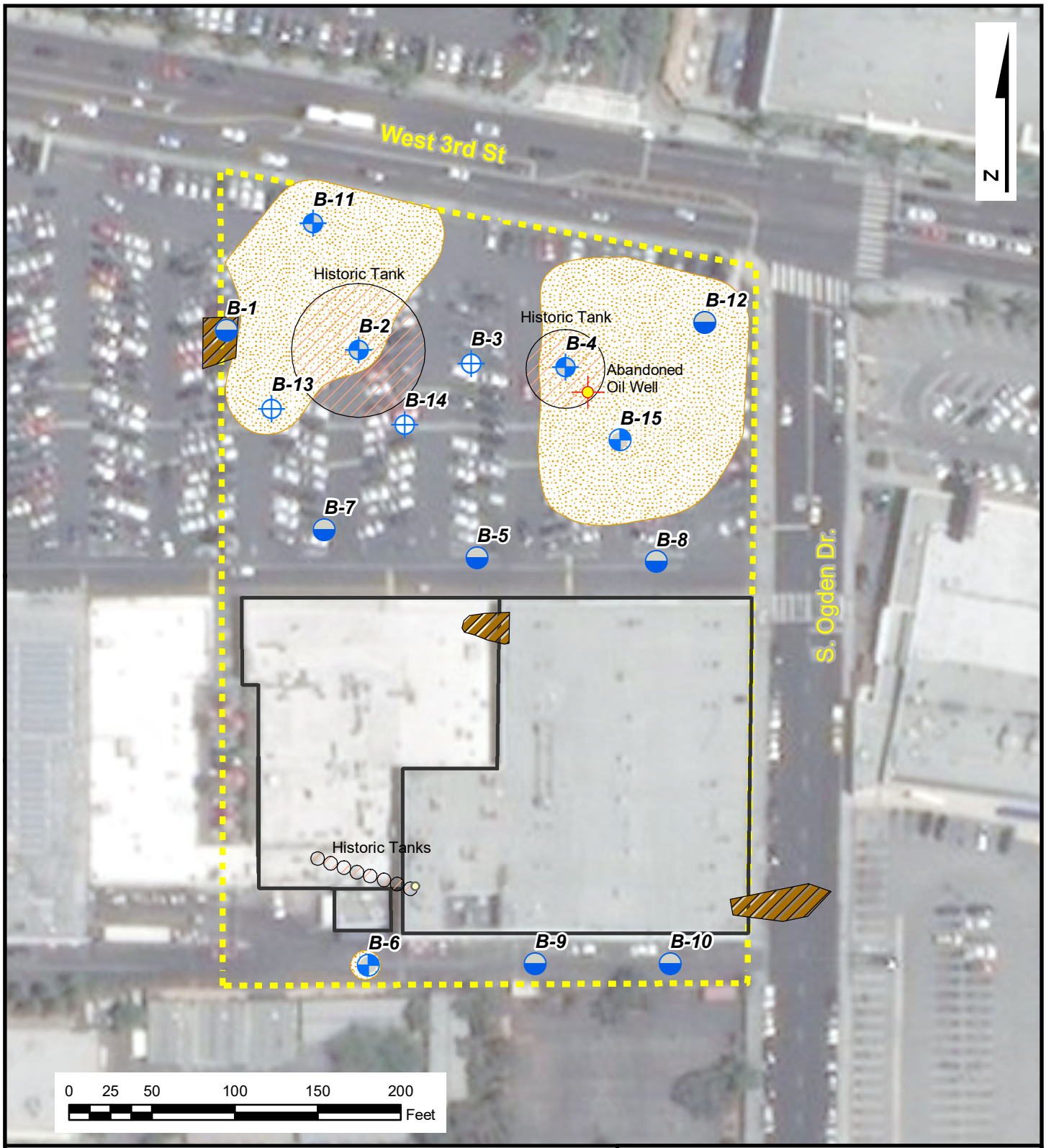
Figure 4

Estimated Lateral Extent of Perched Water Bearing Zone

3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:
2/20/2018	2047.15

northgate environmental management, inc.



Legend

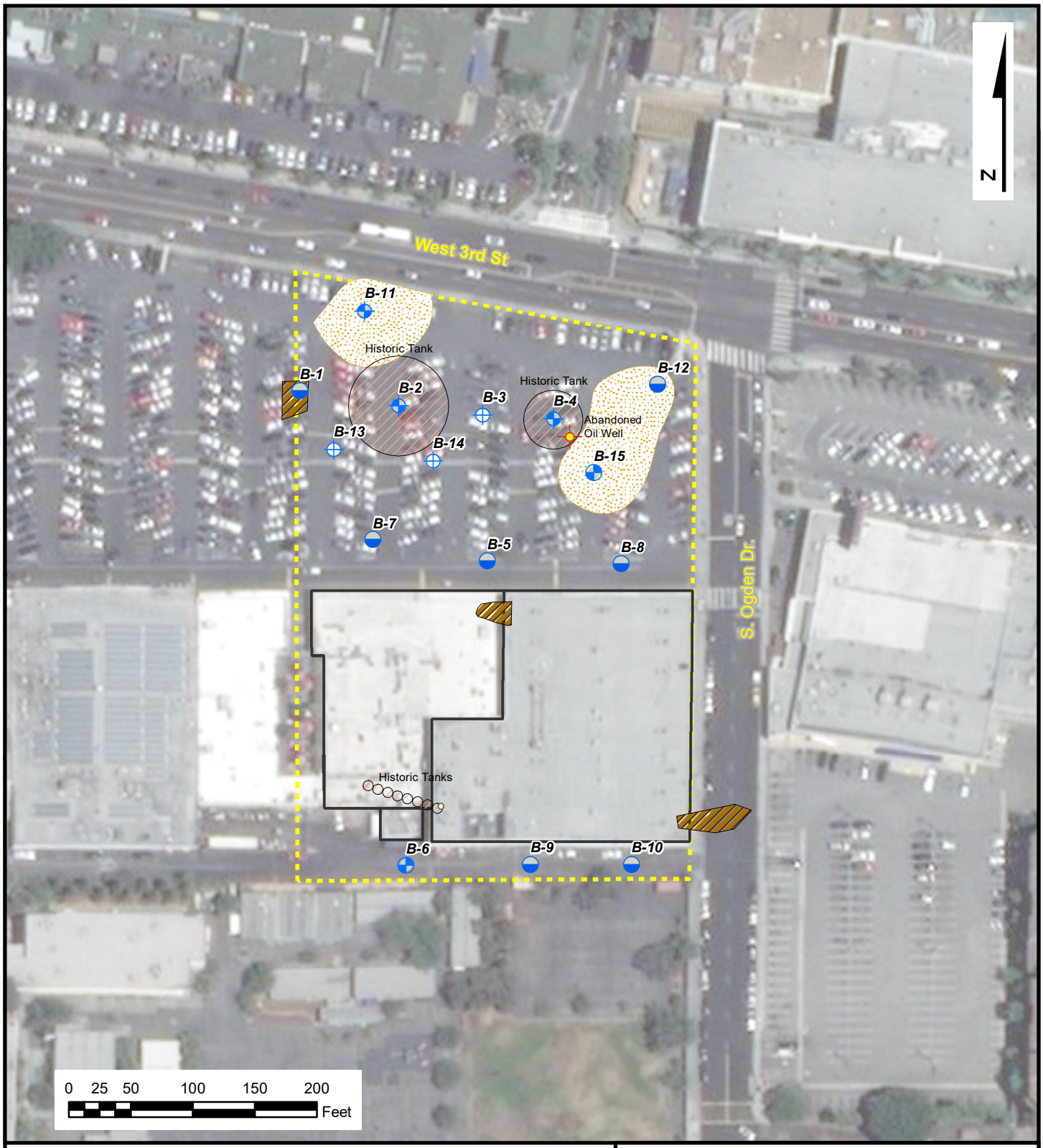
SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- TPHd > 100 mg/kg
- Abandoned Oil Well

Figure 5a

Total Petroleum Hydrocarbon – Diesel
(Greater Than 100 mg/kg)
In Upper 1 Foot of Subsurface
3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:	
2/20/2018	2047.15	northgate environmental management, inc.



Legend

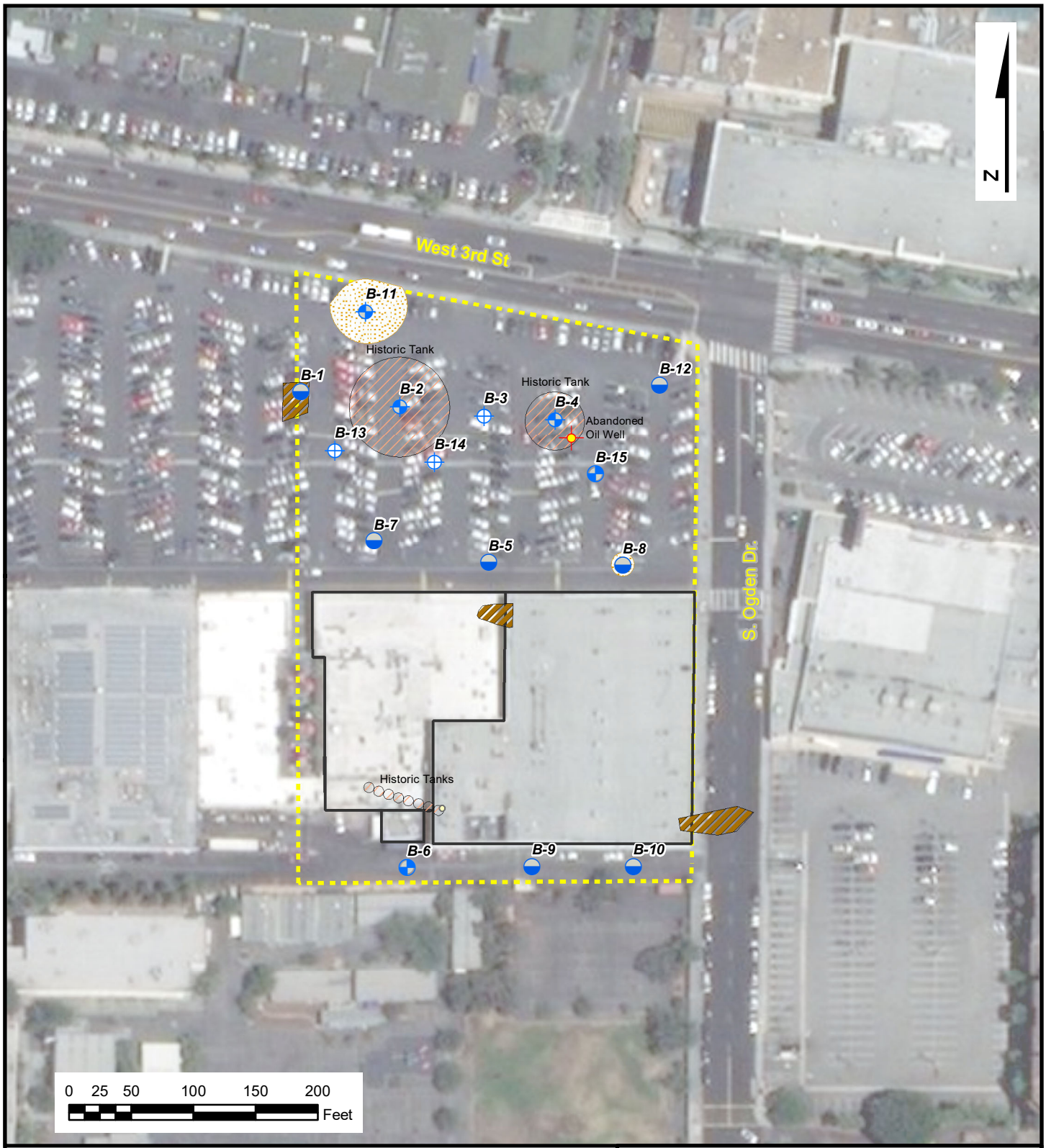
SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- TPHd > 100 mg/kg
- Abandoned Oil Well

Figure 5b

Total Petroleum Hydrocarbon – Diesel
(Greater Than 100 mg/kg)
5 Feet Below Ground Surface
3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:	
2/20/2018	2047.15	northgate environmental management, inc.



Legend

SampleType

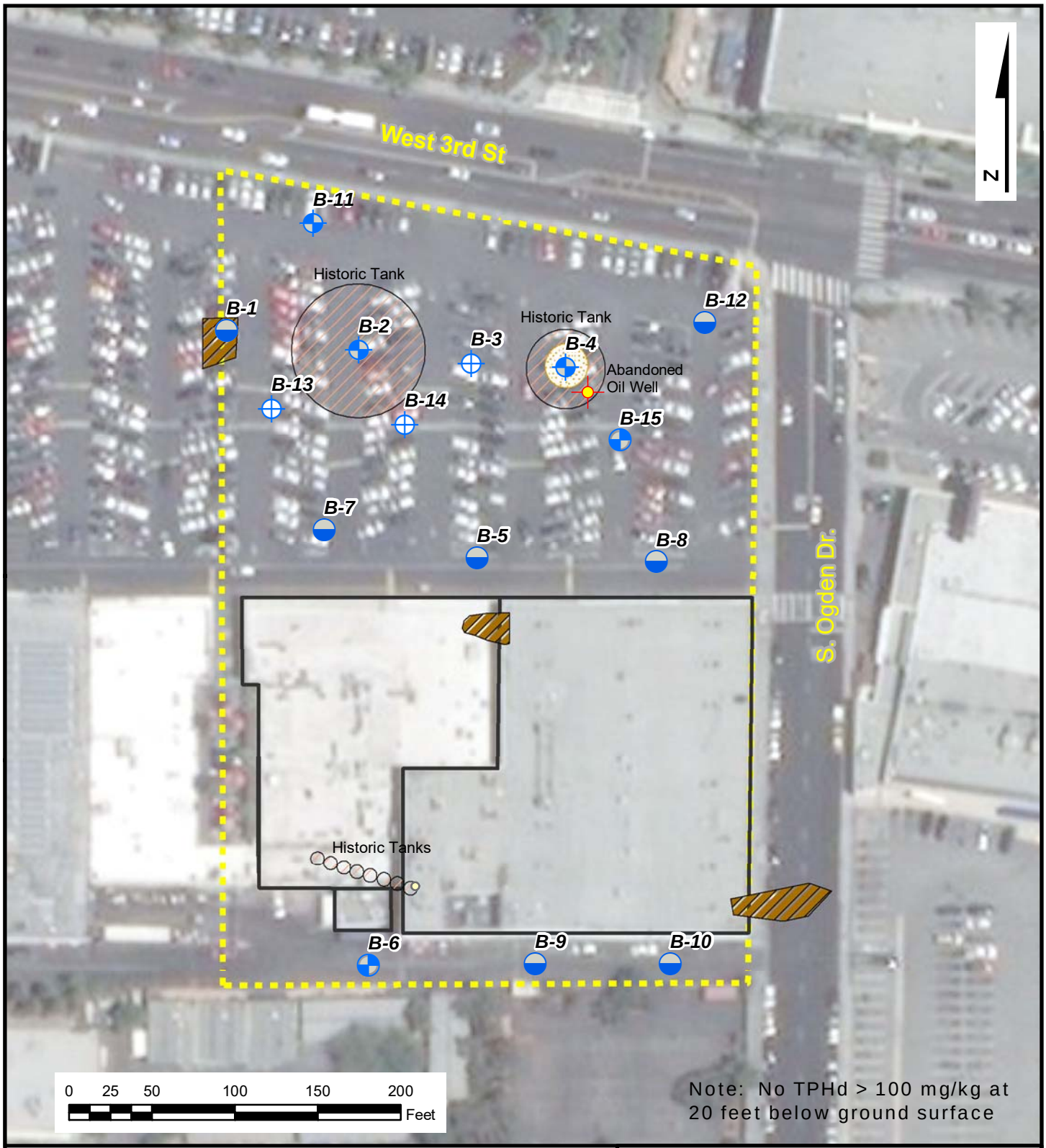
- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor

- Historic Sumps
- Historic Tanks
- TPHd >100 mg/kg
- Abandoned Oil Well

Figure 5c

Total Petroleum Hydrocarbon – Diesel
(Greater Than 100 mg/kg)
Ten Feet Below Ground Surface
3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:	
2/20/2018	2047.15	northgate environmental management, inc.



Legend

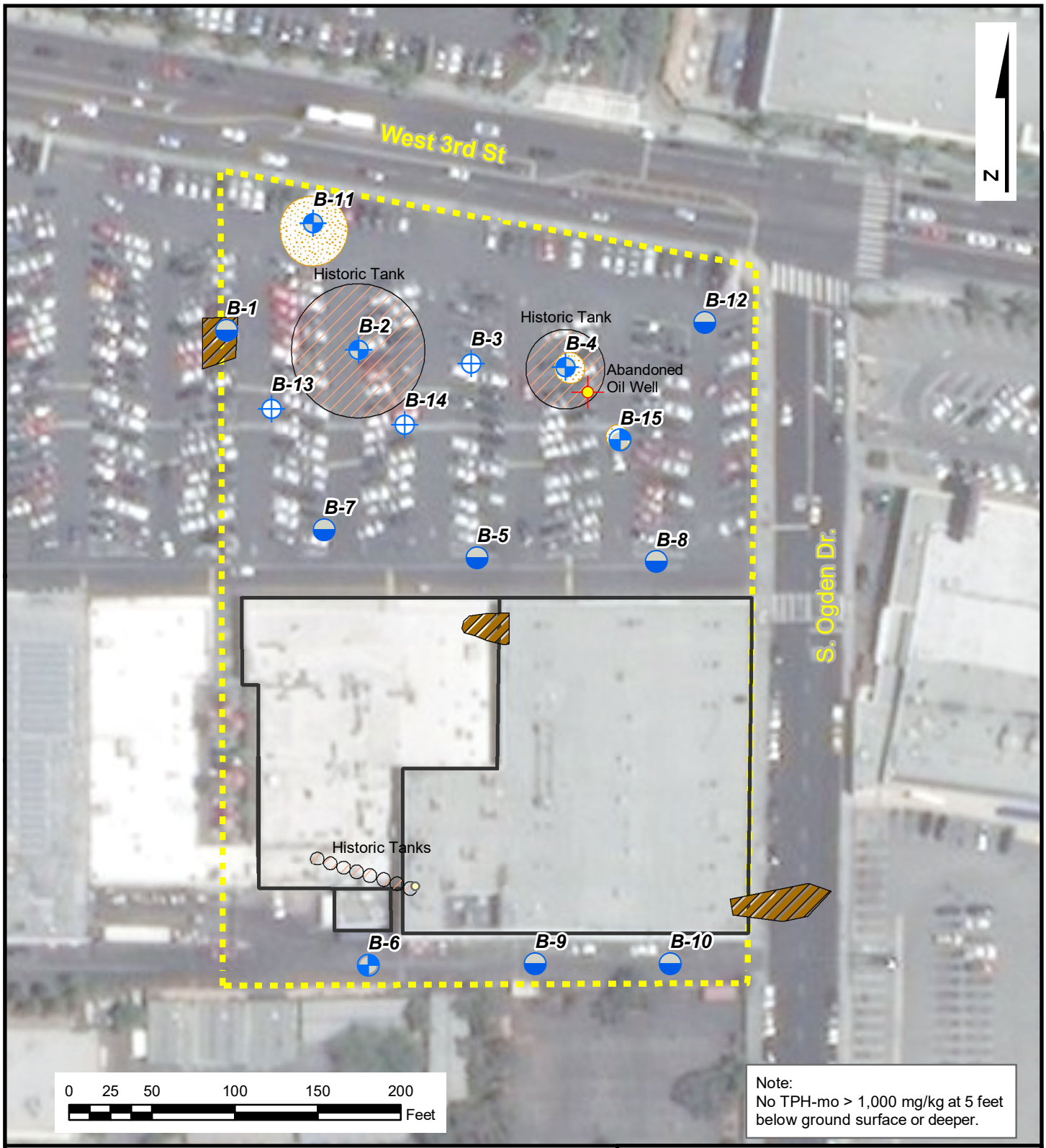
SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- Abandoned Oil Well
- TPHd > 100 mg/kg

Figure 5d

Total Petroleum Hydrocarbon – Diesel
(Greater Than 100 mg/kg)
Fifteen Feet Below Ground Surface
3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:	
2/20/2018	2047.15	northgate environmental management, inc.



Legend

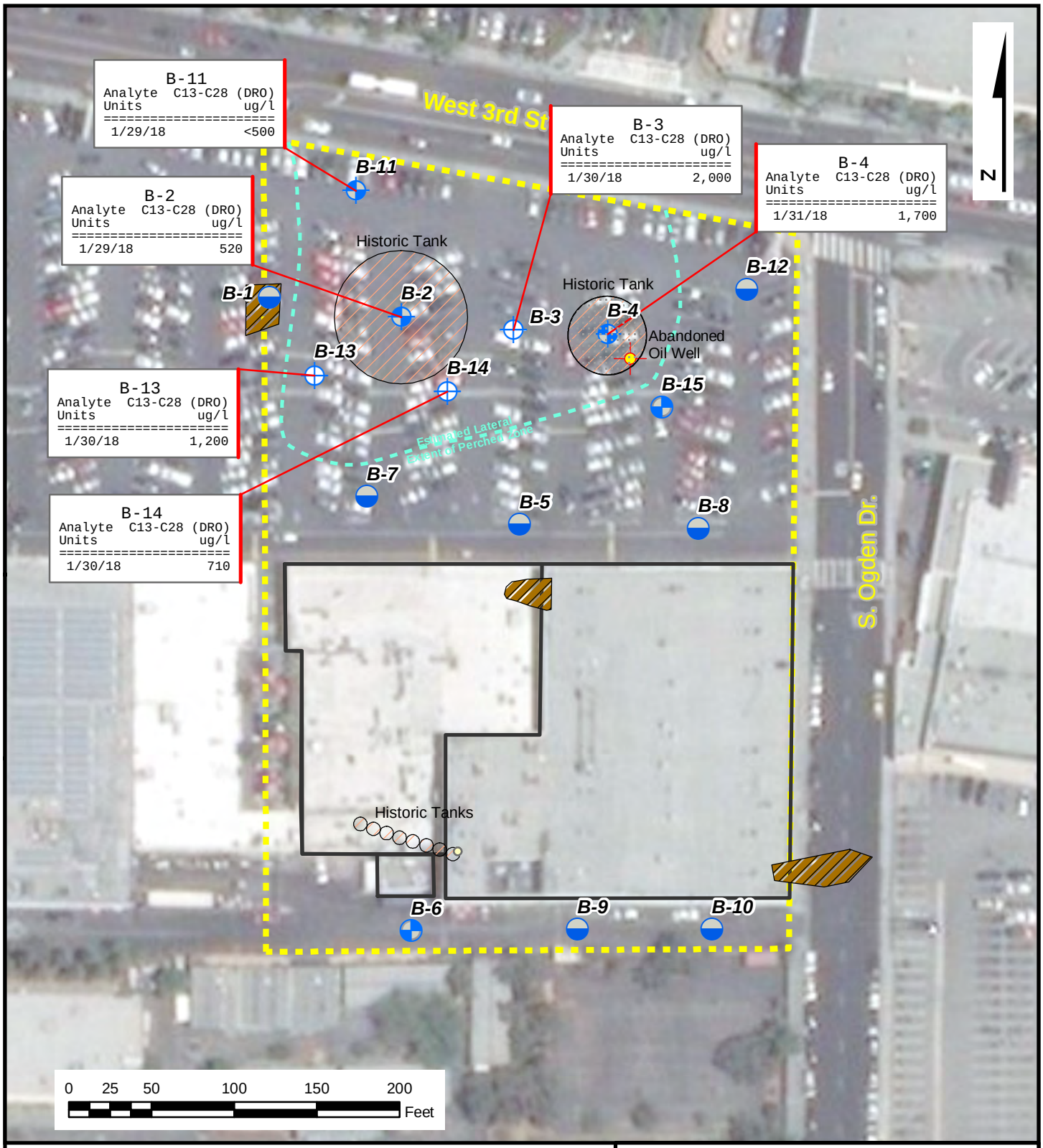
SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- TPHmo >1,000 mg/kg
- Abandoned Oil Well

Figure 6

Total Petroleum Hydrocarbon – Motor Oil
(Greater Than 1,000 mg/kg)
Within Upper 1 Foot of Subsurface
3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:	
2/20/2018	2047.15	northgate environmental management, inc.



Legend

SampleType

- Soil
- Soil and Groundwater
- Soil, Groundwater and Vapor
- Soil and Vapor
- Historic Sumps
- Historic Tanks
- Perched Zone
- Abandoned Oil Well

Figure 7

Total Petroleum Hydrocarbon Diesel (TPHd) In Groundwater

3rd and Fairfax
Los Angeles, California

DATE:	PROJECT NUMBER:
2/20/2018	2047.15

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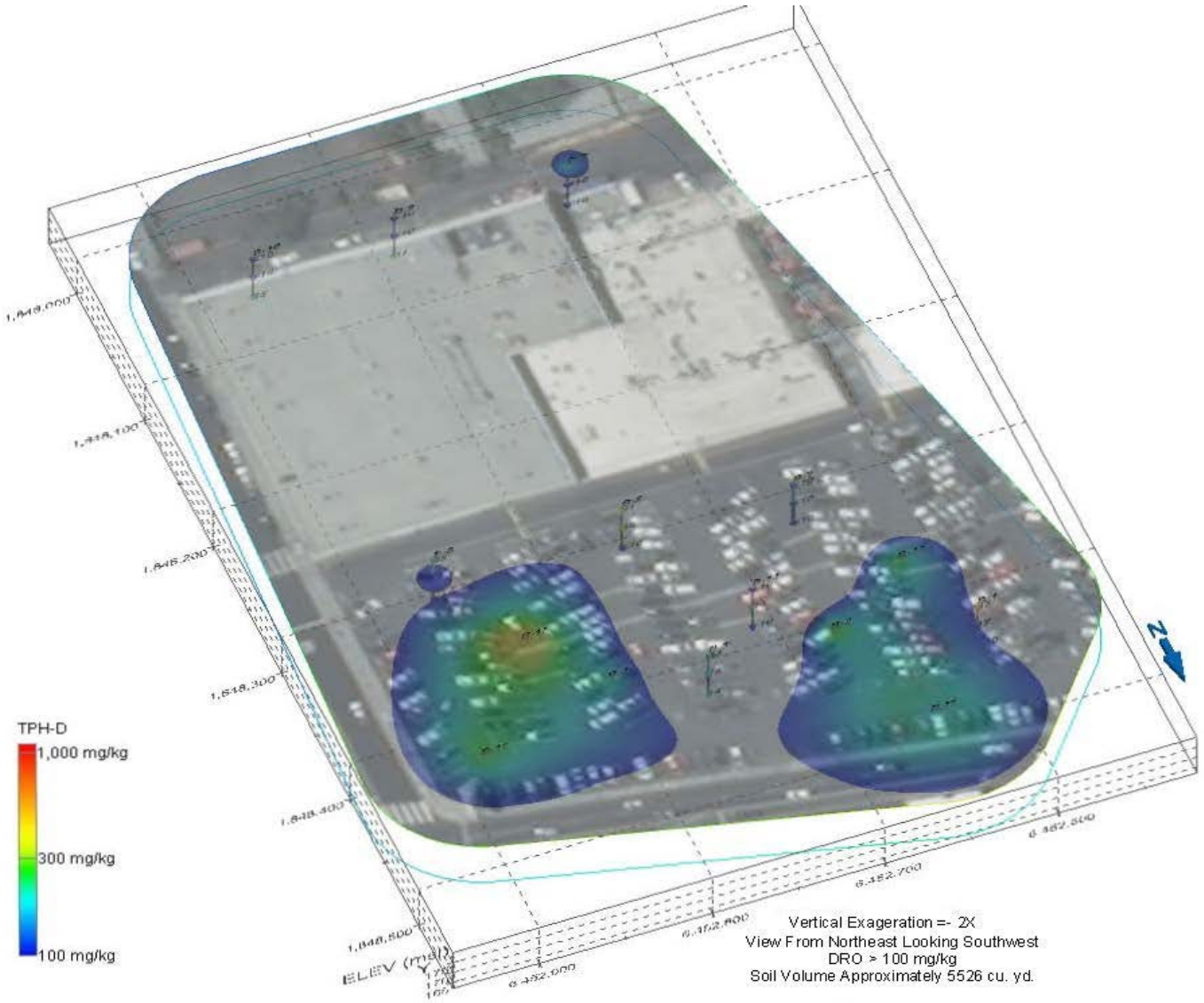
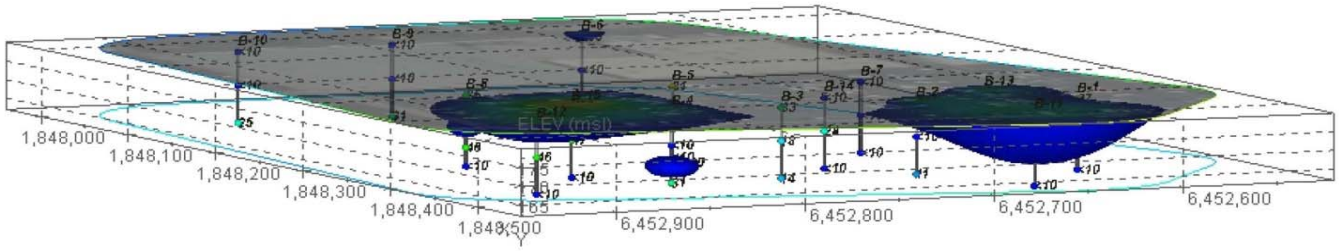


FIGURE 8a
Total Petroleum Hydrocarbon - Diesel (Greater than 100 mg/kg), High View - 3D

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15



TPH-D
1,000 mg/kg
300 mg/kg
100 mg/kg

Vertical Exageration = 2X
View From Northeast Looking Southwest
DRO > 100 mg/kg
Soil Volume Approximately 5526 cu. yd.

FIGURE 8b
Total Petroleum Hydrocarbon - Diesel (Greater than 100 mg/kg), Low View - 3D
Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15

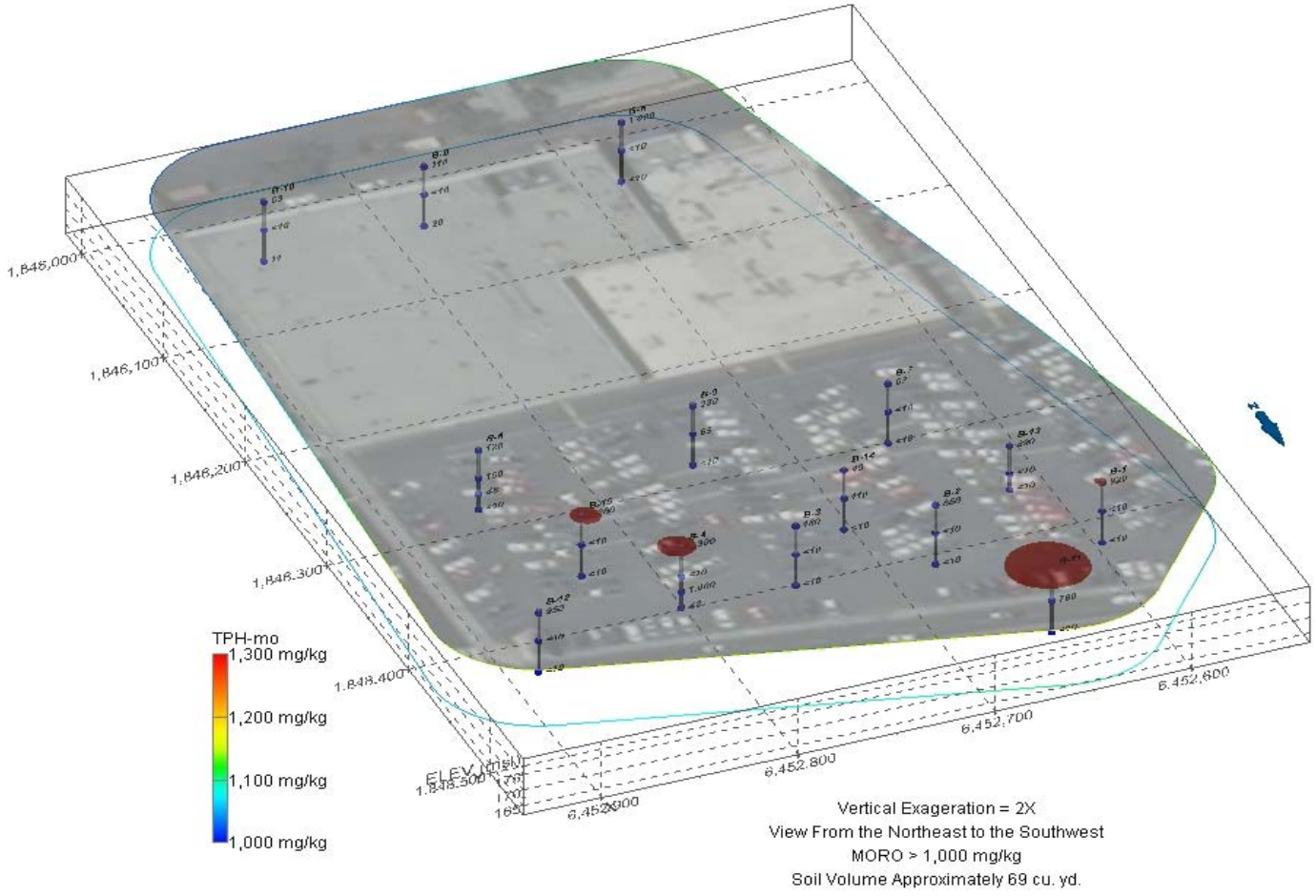


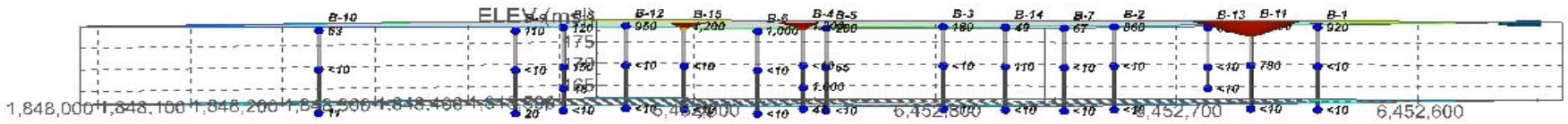
FIGURE 9a

Total Petroleum Hydrocarbon - Motor Oil (Greater than 1,000 mg/kg), High View - 3D

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15



TPH-mo
1,300 mg/kg
1,200 mg/kg
1,100 mg/kg
1,000 mg/kg

Vertical Exageration = 2X
View From the Northeast to the Southwest
MORO > 1,000 mg/kg
Soil Volume Approximately 69 cu. yd.

FIGURE 9b

Total Petroleum Hydrocarbon - Motor Oil (Greater than 1,000 mg/kg), Low View - 3D

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15

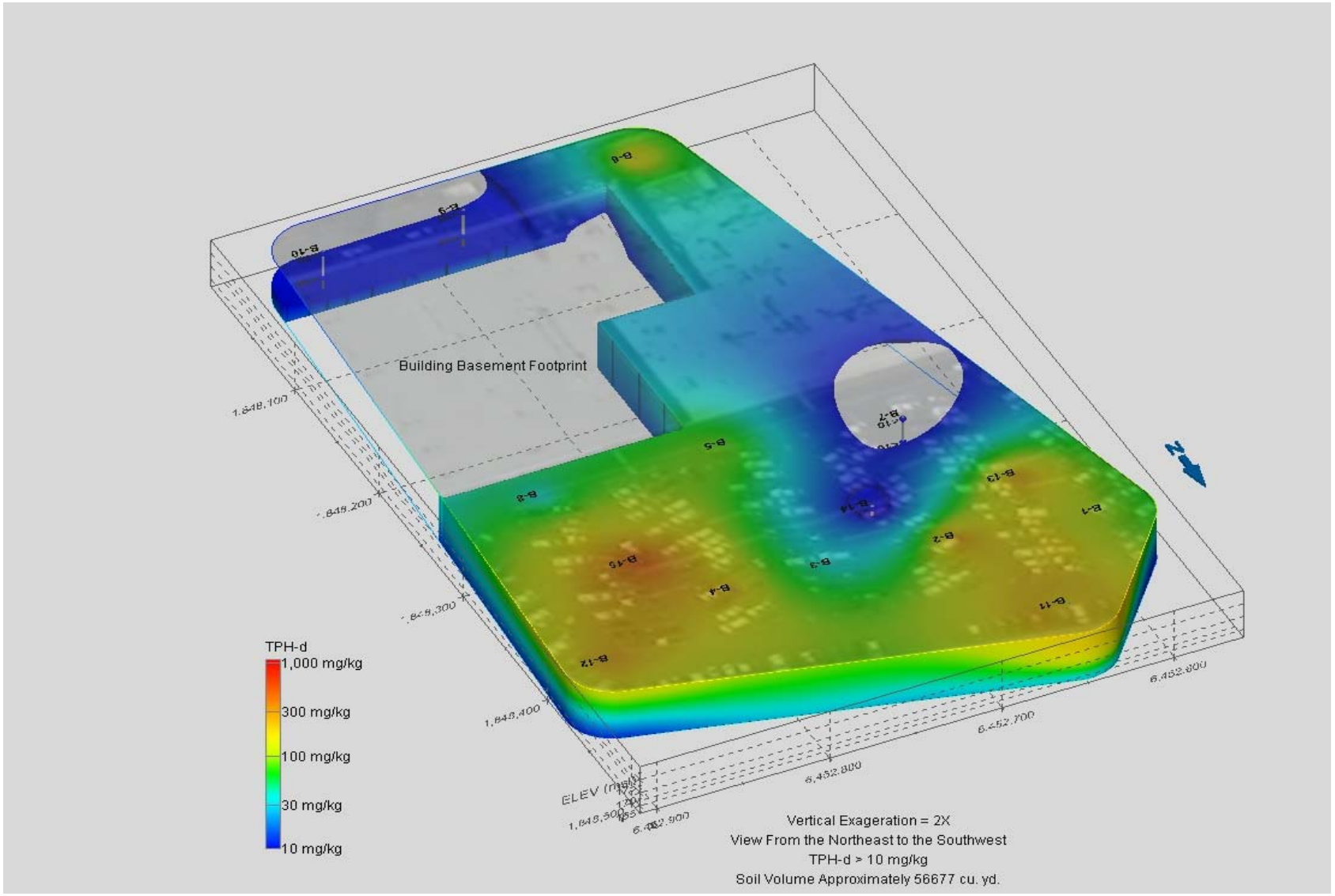


FIGURE 10

Total Petroleum Hydrocarbon - Diesel (All Detections) - 3D

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15

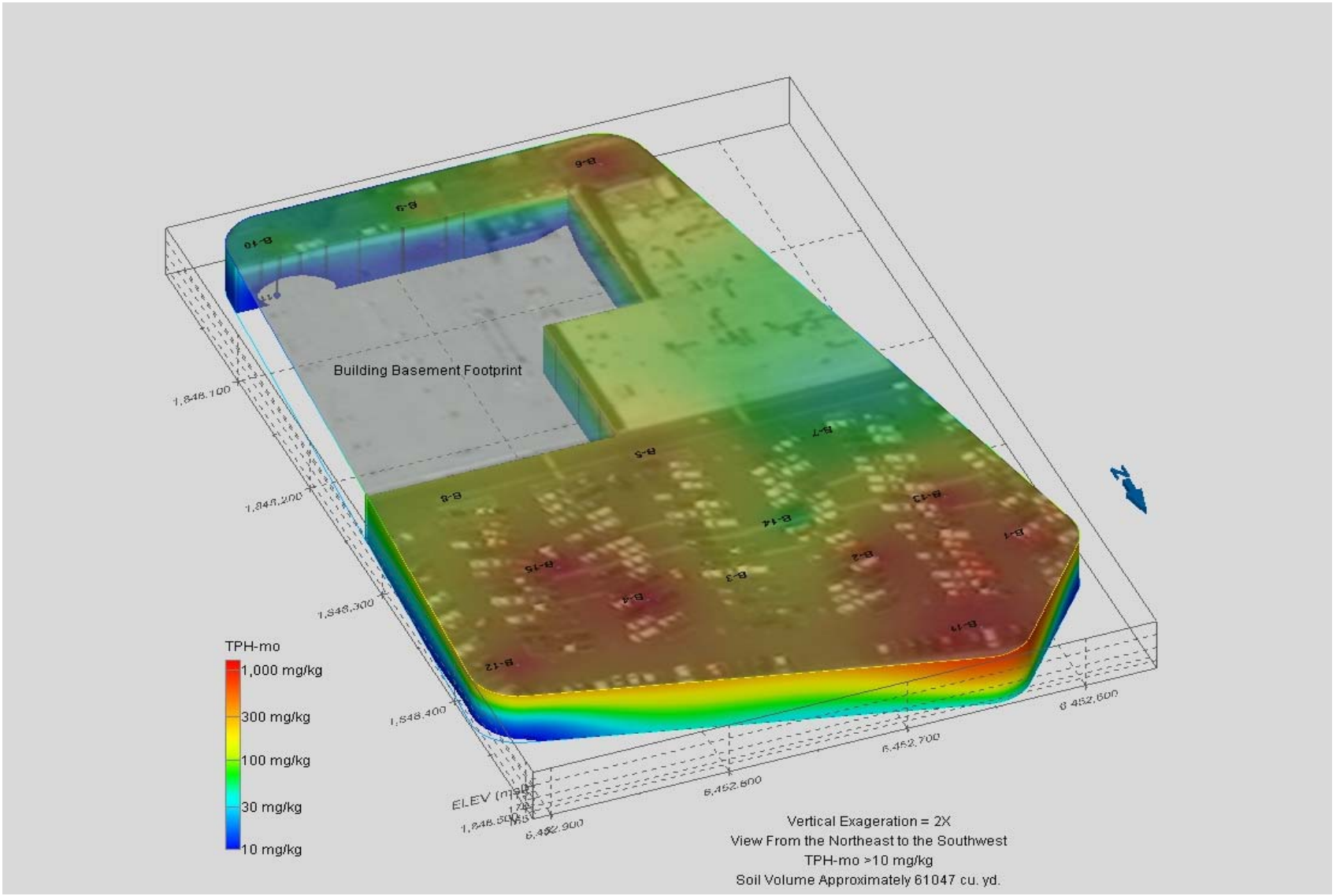


FIGURE 11

Total Petroleum Hydrocarbon - Motor Oil (All Detections) - 3D

Phase II Environmental Site Assessment
3rd and Fairfax - 6300 to 6332 West 3rd Street
Los Angeles, California

northgate environmental management, inc.

Project No. 2047.15

APPENDIX A

FIELD PROCEDURES

APPENDIX A – FIELD PROCEDURES

Drilling of Soil Borings

Prior to advancing the borings, proposed locations were outlined with white paint. Northgate then notified DigAlert (Underground Service Alert of Southern California) at least 48 hours prior to drilling activities, as required by law. As an additional precaution, Northgate contracted with Goldak, Incorporated, an independent geophysical utility locating company, to identify underground utilities and other subsurface obstructions so that the sampling locations were "clear" of any subgrade features. After underground features had been identified and underground utilities had been marked, boring locations were finalized.

All borings were advanced using 2.25" (outer diameter) direct-push drilling rods, with soil samples collected in advance of the bit face using a core sampler. Soil borings were advanced using a truck-mounted Geoprobe™ 6600 direct push rig. The borings were advanced using 2.25 inch diameter hollow rods. The lead drilling rod contained a removable 1.5 inch core sampler that was retrieved at the end of each run. Acetate sleeves were used as liners for the core sampler to collect undisturbed soil samples as the rods were advanced. Borings were advanced to depths of up to 30 feet bgs. All borings were located on private property, none were located in streets or sidewalks.

Installation of Temporary Monitoring Wells

Groundwater samples were collected from six separate boring locations using temporary monitoring wells installed with a direct-push drilling rig. The borings only remained open long enough to collect a groundwater sample before conversion to temporary soil vapor monitoring probes. Following collection of soil vapor samples, the borings were abandoned by backfilling with neat cement grout placed using the tremie method.

Polyvinyl chloride (PVC) well casing were installed in the deep borings to create temporary monitoring wells. The PVC casing terminated in five-feet of 0.010-inch slotted one inch SCH 40 PVC well screen, and threaded bottom cap. The screen was installed so it extended five feet into the saturated zone. The depth to static water within the well casing was determined, and the saturated thickness was calculated in order to facilitate well purging prior to sampling.

Groundwater samples were collected from the temporary wells using new, disposable Teflon bailers following purging of three casing volumes of water from the wells. Upon completion of groundwater and soil vapor sampling, the borings were abandoned by first removing the PVC well casing, and then backfilling with neat cement grout. The grout contained 3% by weight bentonite powder, and was emplaced using the tremie method from total depth to within three inches of the surface. The upper three inches were backfilled with asphalt patch or concrete to match the existing grade.

Installation of Temporary Soil Vapor Monitoring Probes

Temporary soil vapor probes (SMPs) were constructed in the five of the soil borings. Temporary SMPs were constructed inside the drill rods after they had advanced to total depth. Single completion SMPs were constructed at each location, with the probes set at various depths at each location between approximately 8 and 25 feet bgs.

The SMPs consisted of 6-inch long stainless steel implants set at the desired probe depths. Teflon tubing (0.33 inch diameter) was connected from the implant to the ground surface, and terminated above the existing surface with a valve. The borehole annulus around the implant and tubing was filled through the drill rods with sand 6 inches above and below the implant, 12 inches of dry bentonite placed 1 foot above the sand and hydrated bentonite chips from above the sand to the ground surface.

At the completion of vapor sampling, the borings were abandoned by removing the tubing and backfilling the borings with neat cement grout containing 3% hydrated bentonite powder. The upper three inches of the borings were abandoned using cold-patch asphalt or concrete to match the existing surface (see attached figure).

APPENDIX B

BORING LOGS

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Boring Log

Project Number: 2047.15	**Boring No.: B-1**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/29/18**	**Date Completed: 01/29/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 32.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-1-1.0 07:55			SP	Poorly Graded Sand (SP): Dark brown 10YR (3/3), slightly moist, loose. 95% fine sand, 5% non-plastic fines. No odor or staining.		6.5	
2								
3								
4								
5	B-1-5.0 08:14						1.2	
6								
7								
8				SC	Clayey sand (SC): Yellowish brown, medium stiff, damp. 80% fine sand, 20% moderate to non-plastic fines. No odor or staining.			
9								
10	B-1-10.0 08:19						6.1	
11								
12								
13				SP	Poorly Graded Sand (SP): Medium brown, medium dense, damp. 95% fine sand, 5% non-plastic fines. No odor or staining.			
14								
15	B-1-15.0 08:21						5.1	
16								
17								
18				CL	Lean Clay with Sand (CL): Yellowish brown, medium stiff, damp. 15% fine sand, 85% moderate-plastic fines. No odor or staining.			
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-1**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/29/18** | **Date Completed: 01/29/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-1-20.0 08:29				Lean Clay with Sand (CL): Yellowish brown, medium stiff, damp. 15% fine sand, 85% moderate-plastic fines. No odor or staining.		7.3	
22								
23								
24								
25	B-1-25.0 09:15						9.2	
26				CL				
27								
28								
29								
30	B-1-30.0 09:22						9.6	
31								
32					Total Depth = 32.0 feet			
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-2**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/29/18**	**Date Completed: 01/29/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 25.0**	**Depth to Water (ft bgs): 21.15**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-2 @ 14:30 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1	B-2-1.0 13:30			SP	Poorly Graded Sand (SP): Dark brown, slightly moist, loose. 95% fine sand, 5% non-plastic fines. Moderate hydrocarbon odor, no staining.		31.7	
2								
3								
4				SC	Clayey sand (SC): Yellowish brown, medium stiff, damp. 80% fine sand, 20% moderate to non-plastic fines. No odor or staining.			
5	B-2-5.0 13:42						5.0	
6								
7								
8				ML	Sandy Silt (ML): Olive green to greenish-gray, soft to medium-stiff, damp. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.			
9								
10	B-2-10.0 13:48						7.6	
11								
12								
13								
14								
15	B-2-15.0 13:55						6.3	
16								
17								
18								
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-2**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/29/18** | **Date Completed: 01/29/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-2-20.0 14:00			ML	Sandy Silt (ML): Olive green to greenish-gray, soft to medium-stiff, damp. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.		8.6	
22				SP	Poorly Graded Sand (SP): Greenish gray, loose, damp. 95% fine sand, 5% non-plastic fines. No odor or staining. Static water level after groundwater sampling = 21.1' bgs First water observed during drilling = 21.15' bgs	▼		
23								
24								
25	B-2-25.0 14:12				Total Depth = 25.0 feet		8.7	
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

DRB-ENVIRO BORING 2047.15_3RD AND FAIRFAX.GPJ 2/22/18

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Boring Log

Project Number: 2047.15	**Boring No.: B-3**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): 22.85**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-3 @ 12:05 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-3-1.0 10:35			SM	Silty Sand (SM): Very dark greyish brown, loose, damp. 60% fine sand, 40% non-plastic fines. No odor or staining.		3.3	
2								
3								
4								
5	B-3-5.0 10:44			SC	Clayey Sand (SC): Very dark grey, medium dense, slightly moist. 70% fine to coarse sand, 30% moderate to non-plastic fines. No odor or staining.		4.3	
6								
7								
8								
9				CL	Lean Clay with Sand (CL): Dark grey 5Y (6/1), soft, damp. 20% fine sand, 80% moderate to high-plastic fines. No odor or staining.			
10	B-3-10.0 10:48						3.3	
11								
12								
13								
14				ML	Silt (ML): Very dark grey 5Y (3/1), soft, moist. 10% fine sand, 90% low to moderate-plastic fines. No odor or staining.			
15	B-3-15.0 10:52						3.9	
16								
17								
18				MH	Elastic Silt (MH): Dark grey 5Y (4/1), soft, moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.			
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-3**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/30/18** | **Date Completed: 01/30/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-3-20.0 10:57			MH	Elastic Silt (MH): Dark grey 5Y (4/1), soft, moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.		2.5	
22								
23					First water observed during drilling = 22.85' bgs	▽		
24					Static water level after groundwater sampling = 23.52' bgs	▼		
25	B-3-25.0 11:00						2.7	
26								
27				SP	Poorly Graded Sand (SP): Dark olive gray 5Y (3/2), loose, moist to wet. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.			
28								
29								
30	B-3-30.0 11:12				Total Depth = 30.0 feet		0.1	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-4**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/31/18**	**Date Completed: 01/31/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): 22.12**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-4 @ 10:25 in temporary well. Temporary soil vapor probe B-4-15.0 constructed. Boring abandoned with hydrated bentonite.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1	B-4-1.0 09:35			SP	Poorly Graded Sand (SP): Black 5Y (7.5/1), loose, moist. 95% fine to coarse sand, trace of gravel. 5% moderate-plastic fines. Very faint petroleum odor, no staining.		18.5	
5	B-4-5.0 09:46			ML	Silt (ML): Very dark grey 5Y (3/1), medium stiff, moist. 30%- very fine to coarse sand with trace gravels. 70%+ low to moderate-plastic fines. No odor or staining.		14.2	
10	B-4-10.0 09:50			SM	Silty Sand (SM): Dark olive gray 5Y (3/2), loose, damp. 70% fine to very coarse sand, 10% fine subangular gravel, 20% moderate to non-plastic fines. No odor or staining.		7.3	
15	B-4-15.0 09:55			SP	Poorly Graded Sand (SP): Dark greyish brown 10Y (4/2), loose, moist. 95% fine to coarse sand, trace of gravel. 5% moderate-plastic fines. Moderate petroleum odor, no staining.		38.4	
18				SM	Silty Sand (SM): Olive brown 2.5Y (4/3), loose to medium stiff, damp. 60% very fine to fine sand, 40% non-plastic fines. No odor or staining.			

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Boring Log

Project Number: 2047.15

Boring No.: B-4

Project Name: Holland 3rd & Fairfax

Logged by: G. Baader

Location: 6300 West 3rd St. Los Angeles

Date Started: 01/31/18

Date Completed: 01/31/18

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-4-20.0 10:00			SM	Silty Sand (SM): Olive brown 2.5Y (4/3), loose to medium stiff, damp. 60% very fine to fine sand, 40% non-plastic fines. No odor or staining.		15.5	
22					First water observed during drilling = 22.12' bgs Static water level after groundwater sampling = 22.5' bgs	▽ ▼		
23					Elastic Silt with Sand (MH): Olive grey 5Y (5/2), soft, moist. 20% fine sand, 80% non to moderate-plastic fines. No odor or staining.			
24								
25	B-4-25.0 10:05			MH			11.4	
26								
27					Silty Sand (SM): Dark olive 5Y (3/2), loose to medium dense, wet. 65% fine sand, 35% non-plastic fines. No odor or staining.			
28								
29				SM				
30	B-4-30.0 10:09				Total Depth = 30.0 feet		5.6	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-5**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-5-1.0 07:31				Clayey sand (SC): Black 10YR (7/1), medium dense, slightly moist. 70% fine to coarse sand, trace of gravel. 30% moderate to non-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.		0.8	
2								
3								
4				SC				
5	B-5-5.0 07:50				At 5.0' no odor or staining		4.1	
6								
7								
8					Lean Clay (CL): Very dark grey 5Y (3/1), soft, damp. 5% fine sand, 95% moderate to high-plastic fines. No odor or staining.			
9								
10	B-5-10.0 07:55						2.7	
11								
12								
13				CL				
14								
15	B-5-15.0 07:58				Increasing to 10% fine sand and moist at 15.0'		10.1	
16								
17								
18								
19				SC	Clayey sand (SC): Very dark grey 5Y (3/1), medium dense, slightly moist. 70% fine sand, 5% fine gravel, 25% moderate to non-plastic fines. No odor or staining.			

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Boring Log

Project Number: 2047.15 | **Boring No.: B-5**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/30/18** | **Date Completed: 01/30/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-5-20.0 08:03			SC			2.1	
22					Lean Clay with Sand (CL): Dark yellowish brown 10YR (4/6), medium dense, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
23								
24								
25	B-5-25.0 08:10			CL	Color change to Dark yellowish brown 10YR (4/4) at 25.0'		1.1	
26								
27								
28								
29								
30	B-5-30.0 08:23				Total Depth = 30.0 feet		1.0	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

DRB-ENVIRO BORING 2047.15_3RD AND FAIRFAX.GPJ 2/22/18

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Boring Log

Project Number: 2047.15	**Boring No.: B-6**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/29/18**	**Date Completed: 01/29/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-6-10.0 constructed. Boring abandoned with hydrated bentonite. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1	B-6-1.0 15:37			SP	Poorly Graded Sand (SP): Greenish gray 2Gley (5/1), loose, dry. 95% fine to very coarse sand. 5% moderate-plastic fines. No odor or staining.		5.6	
2								
3				SM	Silty Sand (SM): Dark grayish brown 2.5Y (4/2), loose, slightly moist. 70% very fine to medium sand, 10% fine subangular gravel, 20% moderate to non-plastic fines. No odor or staining.			
4								
5	B-6-5.0 15:45						8.9	
6								
7								
8				ML	Sandy Silt (ML): Light grey 2.5Y (7/1), soft, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.			
9								
10	B-6-10.0 15:51						10.2	
11								
12								
13								
14				CL	Lean Clay (CL): LIght grey 10YR (7/1), medium stiff, damp. 5% fine sand, 95% moderate to high-plastic fines. No odor or staining. Mottled appearance.			
15	B-6-15.0 15:56						7.4	
16								
17								
18				ML	Sandy Silt (ML): Light grey 2.5Y (7/1), very stiff, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.			
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-6**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/29/18** | **Date Completed: 01/29/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-6-20.0 16:01			ML	Sandy Silt (ML): Light grey 2.5Y (7/1), very stiff, slightly moist. 30% very fine to coarse sand, 70% low to moderate-plastic fines. No odor or staining. Mottled appearance.		5.0	
22–24				CL	Lean Clay (CL): Dary grey 10YR (4/1), soft, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
25	B-6-25.0 16:06						6.5	
26–29				ML	Sandy Silt (ML): Greenish grey 2Gley (5/1), soft, slightly moist. 30% very fine to medium sand, 70% low to moderate-plastic fines. No odor or staining.			
30	B-6-30.0 16:15				Total Depth = 30.0 feet		5.0	
31–42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-7**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-7-1.0 14:44			SC	Clayey sand (SC): Black 10YR (2/1), medium dense, slightly moist. 60% very fine to coarse sand, 40% moderate to high-plastic fines. No odor or staining.		5.9	
2								
3								
4				ML	Sandy Silt (ML): Olive gray 5Y (4/2), soft, slightly moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.			
5	B-7-5.0 14:50						2.2	
6								
7								
8								
9				SP	Poorly Graded Sand (SP): Very dark gray 5Y (3/1), slightly moist, loose. 80% fine to coarse sand, 20% moderate-plastic fines. No odor or staining.			
10	B-7-10.0 14:53						2.8	
11								
12								
13								
14								
15	B-7-15.0 14:56				Increasing to 90% sand at 15.0'		3.4	
16								
17								
18								
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-7**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/30/18** | **Date Completed: 01/30/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-7-20.0 14:59			SP	Poorly Graded Sand (SP): Very dark gray 5Y (3/1), slightly moist, loose. 80% fine to coarse sand, 20% moderate-plastic fines. No odor or staining.		3.2	
22–26	B-7-25.0 15:04			CL	Lean Clay with Sand (CL): Dark yellowish brown 10YR (5/4), medium stiff, slightly moist. 20% fine sand, 80% moderate to high-plastic fines. No odor or staining.		2.4	
27–29				MH	Elastic Silt (MH): Yellowish brown 10YR (5/6), medium stiff, slightly moist. 25% very fine to medium sand, 75% low to moderate-plastic fines. No odor or staining.			
30	B-7-30.0 15:07				Total Depth = 30.0 feet		3.4	
31–42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-8**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/31/18**	**Date Completed: 01/31/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-8-1.0 07:25			CL	Lean Clay with Sand (CL): Dark brown 7.5YR (3/3), medium stiff, slightly moist. 20% very fine to coarse sand, 80% moderate to high-plastic fines. No odor or staining.		0.3	
5	B-8-5.0 07:28				Moderate to strong petroleum odor at 5.0'		80	
8				SC	Clayey sand (SC): Olive gray 5Y (4/2), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.			
10	B-8-10.0 07:33						31.1	
15	B-8-15.0 07:39				Color change to Olive gray 5Y (5/2) with faint hydrocarbon odor at 15.0'		34.2	
18				CL	Lean Clay (CL): Olive gray 5Y (5/2), slightly moist, very stiff. 10% fine sand, 90% moderate-plasticity fines. No odor or staining.			

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Boring Log

Project Number: 2047.15 | **Boring No.: B-8**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/31/18** | **Date Completed: 01/31/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-8-20.0 07:44			CL	Lean Clay (CL): Olive gray 5Y (5/2), slightly moist, very stiff. 10% fine sand, 90% moderate-plasticity fines. No odor or staining.		3.5	
22–26				MH	Elastic Silt (MH): Yellowish brown 10YR (5/6), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
25	B-8-25.0 07:50						5.0	
27–29				ML	Sandy Silt (ML): Yellowish brown 10YR (5/6), very stiff, slightly moist. 30% very fine to medium sand, 70% non to moderate-plastic fines. No odor or staining.			
30	B-8-30.0 07:54				Total Depth = 30.0 feet		7.8	
31–42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-9**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	8 inches of asphalt			
1	B-9-1.0 16:30			SP	Poorly Graded Sand (SP): Dark grey 5Y (4/1), loose, slightly moist. 95% fine to very coarse sand, 5% non to moderate-plastic fines. No odor or staining.		1.4	
2								
3				SC	Clayey sand (SC): Very dark grey 5Y (3/1), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. No odor or staining.			
4								
5	B-9-5.0 16:40						3.0	
6								
7								
8				CL	Lean Clay with Sand (CL): Gray 5Y (5/1), medium stiff, slightly moist. 20% very fine to medium sand, 80% moderate to high-plastic fines. No odor or staining.			
9								
10	B-9-10.0 16:43						3.2	
11								
12								
13								
14								
15	B-9-15.0 16:50						2.2	
16								
17								
18				MH	Elastic Silt (MH): Olive gray 5Y (4/2), soft, slightly moist. 5% fine sand, 95% moderate to non-plastic fines. No odor or staining.			
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-9**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/30/18** | **Date Completed: 01/30/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-9-20.0 16:57			MH	Elastic Silt (MH): Olive gray 5Y (4/2), soft, slightly moist. 5% fine sand, 95% moderate to non-plastic fines. No odor or staining.		1.9	
22					Lean Clay with Sand (CL): Olive gray 5YR (4/2), medium stiff, slightly moist. 30% fine sand, 70% moderate to high-plastic fines. No odor or staining.			
25	B-9-25.0 17:05			CL			2.6	
30	B-9-30.0 17:08				Total Depth = 30.0 feet		2.1	

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Boring Log

Project Number: 2047.15	**Boring No.: B-10**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/31/18**	**Date Completed: 01/31/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Boring abandoned with neat cement grout containing 3% bentonite powder. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1–2	B-10-1.0 13:12			SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% fine sand, trace gravel, 5% non to moderate-plastic fines. No odor or staining.		5.4	
3–7	B-10-5.0 13:15			SM	Silty sand (SM): Very dark greyish brown 2.5Y (3/2), loose to medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to non-plastic fines. No odor or staining.		9.0	
8–12	B-10-10.0 13:18			MH	Elastic Silt (MH): Dark greyish brown 10YR (4/2), soft to medium stiff, slightly moist. 5% very fine to medium sand, 95% moderate to high-plastic fines. No odor or staining.		9.5	
13–17	B-10-15.0 13:20			SC	Clayey Sand (SC): Very dark grayish brown 10YR (3/2), soft to medium-stiff, slightly moist. 60% fine sand, 40% moderate to high-plastic fines. No odor or staining.		10.5	
18–19				ML	Silt with Sand (ML): Dark gray 5Y (4/1), medium dense, slightly moist. 40% very fine to medium sand, 60% non-plastic fines. No odor or staining.			

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Boring Log

Project Number: 2047.15

Boring No.: B-10

Project Name: Holland 3rd & Fairfax

Logged by: G. Baader

Location: 6300 West 3rd St. Los Angeles

Date Started: 01/31/18

Date Completed: 01/31/18

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-10-20.0 13:24			ML	Silt with Sand (ML): Dark gray 5Y (4/1), medium dense, slightly moist. 40% very fine to medium sand, 60% non-plastic fines. No odor or staining.		9.7	
22				MH	Elastic Silt (MH): Dark gray 10YR (4/1), stiff, slightly moist. 10% fine sand, 90% moderate-plastic fines. No odor or staining.			
25	B-10-25.0 13:28						7.6	
30	B-10-30.0 13:32				Total Depth = 30.0 feet		8.8	

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Boring Log

Project Number: 2047.15	**Boring No.: B-11**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/29/18**	**Date Completed: 01/29/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 28.0**	**Depth to Water (ft bgs): 22.1**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary vapor well B-11-8.0 constructed in boring. Boring abandoned with hydrated bentonite.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1	B-11-1.0 10:00			SP	Poorly Graded Sand (SP): Dark brown 10YR (3/3), slightly moist, loose. 95% fine sand, 5% non-plastic fines. No odor or staining.		14.6	
2								
3								
4				SC	Clayey Sand (SC): Medium brown 10YR (5/3), medium dense, slightly moist. 80% fine sand, 20% moderate to high-plastic fines. No odor or staining.			
5	B-11-5.0 10:11						5.7	
6								
7								
8				CL	Lean Clay with Sand (CL): Greenish gray Gley (6/1) to brown 7.5YR (2/2), medium-stiff to stiff, slightly moist to moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.			
9								
10	B-11-10.0 10:15						25.3	
11								
12								
13								
14								
15	B-11-15.0 10:20						14.6	
16								
17								
18					Mottled appearance at 19.0'			
19								

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Boring Log

Project Number: 2047.15

Boring No.: B-11

Project Name: Holland 3rd & Fairfax

Logged by: G. Baader

Location: 6300 West 3rd St. Los Angeles

Date Started: 01/29/18

Date Completed: 01/29/18

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-11-20.0 10:25			CL	Lean Clay with Sand (CL): Greenish gray Gley (6/1) to brown 7.5YR (2/2), medium-stiff to stiff, slightly moist to moist. 30% fine sand, 70% non to moderate-plastic fines. No odor or staining.		9.4	
22					First water observed during drilling = 21.1' bgs	▼		
23								
24								
25	B-11-25.0 10:30						8.4	
26								
27								
28					Total Depth = 28.0 feet			
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-12**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/31/18**	**Date Completed: 01/31/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-12-15.0 constructed in boring. Boring abandoned with hydrated bentonite. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-12-1.0 08:10			SM	Silty Sand (SM): Black 5Y (2.5/1), loose, slightly moist. 60% very fine to medium sand, trace gravel, 40% moderate to non-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.		40.5	
2								
3								
4				SC	Clayey Sand (SC): Dark olive gray 5Y (3/2), medium dense, slightly moist. 60% very fine to medium sand, 40% moderate to high-plastic fines. No odor or staining.			
5	B-12-5.0 08:16						9.1	
6								
7								
8								
9								
10	B-12-10.0 08:20						10.2	
11								
12								
13				SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% very fine to coarse sand, trace gravel, 5% non-plastic fines. No odor or staining.			
14								
15	B-12-15.0 08:25						11.2	
16								
17								
18				MH	Elastic Silt (MH): Gray 5Y (5/2), stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.			
19								

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Boring Log

Project Number: 2047.15 | **Boring No.: B-12**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/31/18** | **Date Completed: 01/31/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-12-20.0 08:28			MH	Elastic Silt (MH): Gray 5Y (5/2), stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining.		6.2	
22					Clayey Sand (SC): Dark olive gray 5Y (3/2): medium stiff, slightly moist. 60% fine sand, 40% moderate to high-plasticity fines. No odor or staining.			
23								
24								
25	B-12-25.0 08:33			SC			10.3	
26								
27								
28								
29								
30	B-12-30.0 08:37				Total Depth = 30.0 feet		6.7	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-13**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 25.0**	**Depth to Water (ft bgs): 19.67**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-12 @ 14:03 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
				Asphalt	4 inches of asphalt			
1	B-13-1.0 13:07				Clayey Sand (SC): Very dark brown 10YR (2/2), medium dense, slightly moist. 670% fine to coarse sand, trace gravel, 40% moderate to high-plastic fines. Moderate hydrocarbon odor, no discoloration or staining.		5.3	
2								
3								
4				SC				
5	B-13-5.0 13:15				No odor or staining at 5.0'		2.0	
6								
7								
8					Silt (ML): Very dark grey 5Y (3/1), soft, slightly moist. 20% very fine to medium sand, 80% low to moderate-plastic fines. No odor or staining.			
9								
10	B-13-10.0 13:18			ML			2.6	
11								
12								
13					Poorly Graded Sand (SP): Dark gray 5Y (4/1), loose, slightly moist. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.			
14								
15	B-13-15.0 13:22						8.1	
16				SP				
17								
18								
19					First water observed during drilling = 19.67' bgs	▼		

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Boring Log

Project Number: 2047.15

Boring No.: B-13

Project Name: Holland 3rd & Fairfax

Logged by: G. Baader

Location: 6300 West 3rd St. Los Angeles

Date Started: 01/30/18

Date Completed: 01/30/18

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-13-20.0 13:27			SP	Static water level after groundwater sampling = 19.65' bgs Poorly Graded Sand (SP): Dark gray 5Y (4/1), loose, slightly moist. 95% fine to coarse sand, 5% moderate-plastic fines. No odor or staining.		3.8	
22								
23				MH	Elastic Silt (MH): Dark grey 5Y (4/1), soft, wet. 10% fine sand, 90% moderate-plastic fines. No odor or staining.			
24								
25	B-13-25.0 13:31				Total Depth = 25.0 feet		3.2	
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-14**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/30/18**	**Date Completed: 01/30/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): 23.5**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Collected groundwater sample B-14 @ 09:50 in temporary well constructed in boring. Boring abandoned with neat cement grout containing 3% bentonite powder.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1	B-14-1.0 08:45			CL	Lean Clay (CL): Very dark grey 10 YR (3/1), slightly moist, very stiff. 5% fine sand, 95% moderate to high-plastic fines. Slight hydrocarbon odor, no discoloration or staining.		1.4	
5	B-14-5.0 08:50				No odor or staining at 5.0', coarsening to 10% fine sand.		5.8	
8				SM	Silty Sand (SM): Very dark gray 5YR (3/1), loose, slightly moist. 80% fine to medium sand, 20% moderate-plastic fines. No odor or staining.			
10	B-14-10.0 08:59						3.1	
15	B-14-15.0 09:03				Color change to dark olive gray 5YR (3/2) at 15.0', increasing to 85% fine to medium sand.		5.6	

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Boring Log

Project Number: 2047.15 | **Boring No.: B-14**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/30/18** | **Date Completed: 01/30/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-14-20.0 09:07				Silty Sand (SM): Very dark gray 5YR (3/1), loose, slightly moist. 80% fine to medium sand, 20% moderate-plastic fines. No odor or staining. Trace of gravel at 20.0' Static water level after groundwater sampling = 20.6' bgs	▼	3.8	
22								
23					First water observed during drilling = 23.5' bgs	▽		
24								
25	B-14-25.0 09:09			SM	Color change to olive gray 5Y (4/2) at 25.0', fines increasing to 40%		3.1	
26								
27								
28					Color change to dark gray 5Y (4/1) at 28.0', sand increasing to 70%			
29								
30	B-14-30.0 09:19				Total Depth = 30.0 feet		2.9	
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

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Boring Log

Project Number: 2047.15	**Boring No.: B-15**	
Project Name: Holland 3rd & Fairfax	**Logged by: G. Baader**	
Location: 6300 West 3rd St. Los Angeles	**Date Started: 01/31/18**	**Date Completed: 01/31/18**
Drilling Contractor: BC2	**Total Depth (ft bgs): 30.0**	**Depth to Water (ft bgs): NA**
Drilling Method: Direct Push	**Borehole Dia. (in): 2.25**	**Surface Elevation (ft MSL):**

Remarks: Geoprobe 6400 limited access rig. Continuous core collected in acetate liners. Temporary soil vapor probe B-15-25.0 constructed in boring. Boring abandoned with hydrated bentonite. Groundwater not encountered.

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
0				Asphalt	4 inches of asphalt			
1–3	B-15-1.0 10:45			SC	Clayey Sand (SC): Black 10YR (2/1), medium dense, slightly moist. 70% very fine to medium sand, 30% moderate to high-plastic fines. Moderate petroleum odor, no discoloration or staining.		12.8	
4–7	B-15-5.0 10:48			SM	Silty Sand (SM): Very dark gray 2.5Y (3/1), loose, slightly moist. 60% very fine to medium sand, 40% moderate to non-plastic fines. No odor or staining.		5.0	
8–12	B-15-10.0 10:52			SP	Poorly Graded Sand (SP): Dark greyish brown 2.5Y (4/2), loose, slightly moist. 95% very fine to coarse sand, trace gravel, 5% non-plastic fines. No odor or staining.		2.5	
13–19	B-15-15.0 10:55			MH	Elastic Silt (MH): Very dark grayish brown 2.5Y (3/2), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining. Caliche nodules to 1/4"		3.1	

DRB-ENVIRO BORING 2047.15_3RD AND FAIRFAX.GPJ 2/22/18

northgate environmental management, inc.
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
Telephone: 949.716.0050
Fax: 949.716.0055

Boring Log

Project Number: 2047.15 | **Boring No.: B-15**

Project Name: Holland 3rd & Fairfax | **Logged by: G. Baader**

Location: 6300 West 3rd St. Los Angeles | **Date Started: 01/31/18** | **Date Completed: 01/31/18**

Depth (ft)	Sample I.D. Sample Time	Sample Type	Graphic Log	USCS Code	Material Description	Water Level	10.6 ev PID (ppm)	Backfill
21	B-15-20.0 11:00				Elastic Silt (MH): Very dark grayish brown 2.5Y (3/2), very stiff, slightly moist. 15% fine sand, 85% moderate to high-plastic fines. No odor or staining. Caliche nodules to 1/4"		7.0	
25	B-15-25.0 11:09			MH	Color change to yellowish brown 10YR (5/6) at 25.0', sand decreasing to 10%, some caliche nodules to 1/4"		5.7	
28					Color change to dark gray 2.5Y (4/1) with trace of gravel to 3/4" at 28.0'			
30	B-15-30.0 11:15				Total Depth = 30.0 feet		6.2	

DRB-ENVIRO BORING 2047.15_3RD AND FAIRFAX.GPJ 2/22/18

APPENDIX C

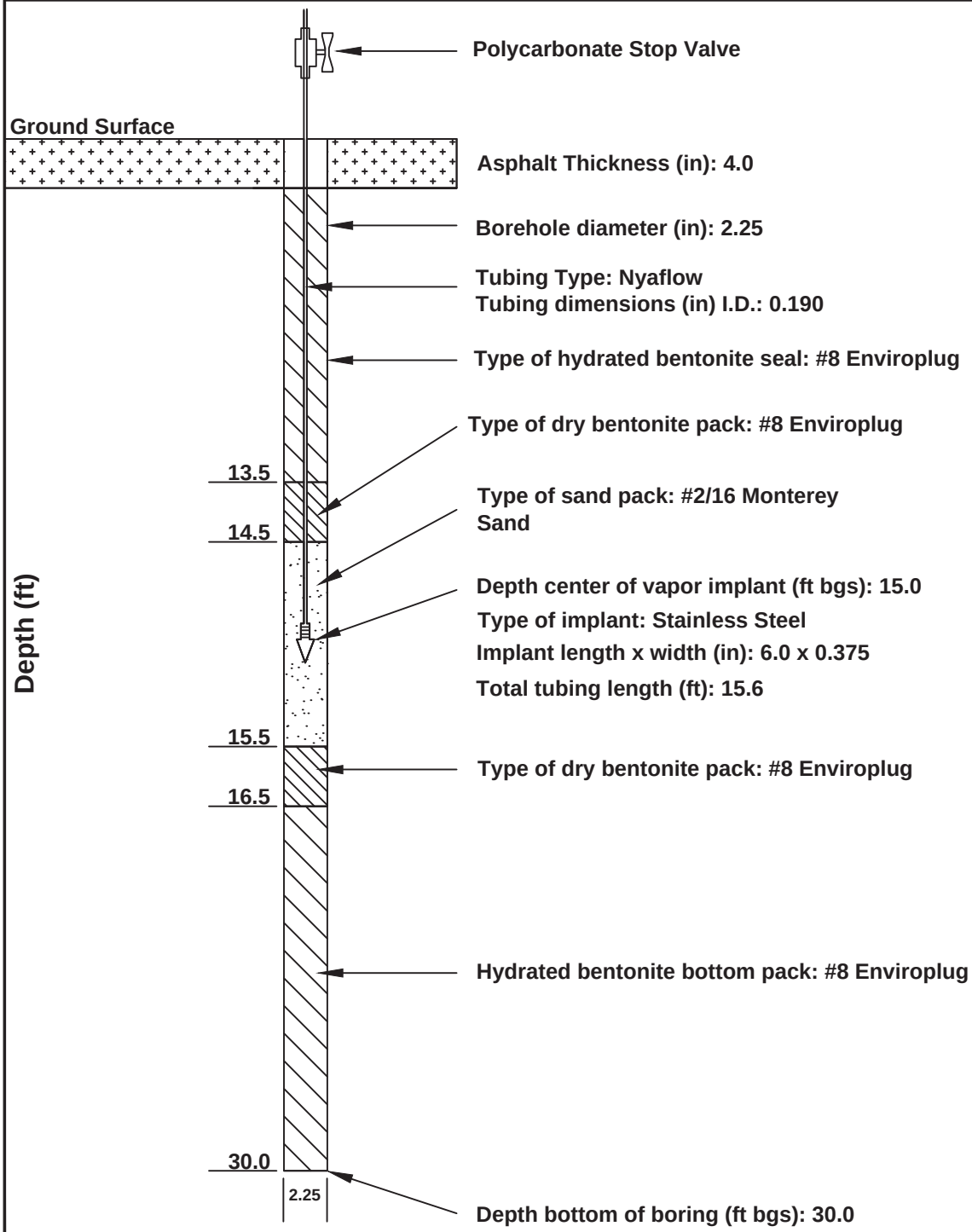
SOIL VAPOR PROBE CONSTRUCTION DETAILS

Northgate Environmental Management
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
(949) 716-0050; fax (949) 716-0055

Temporary Vapor Probe Construction Detail

Project Number: 2047.15		**Probe Identification: B-4-15.0'**
Project Name: Holland 3rd & Fairfax		**Location: 6300 W. 3rd Street, Los Angeles, CA**
Installed By: BC2 Environmental		**Drawn By: Dana R. Brown**
Drilling Method: Direct Push	**Date Started: 1/31/2018**	**Date Completed: 1/31/2018**
Borehole Dia. (in): 2.25	**Total Depth (ft): 30.0**	**Depth to Water (ft): 22.5**

Remarks: Temporary vapor probe installed at 15.0' below ground surface.

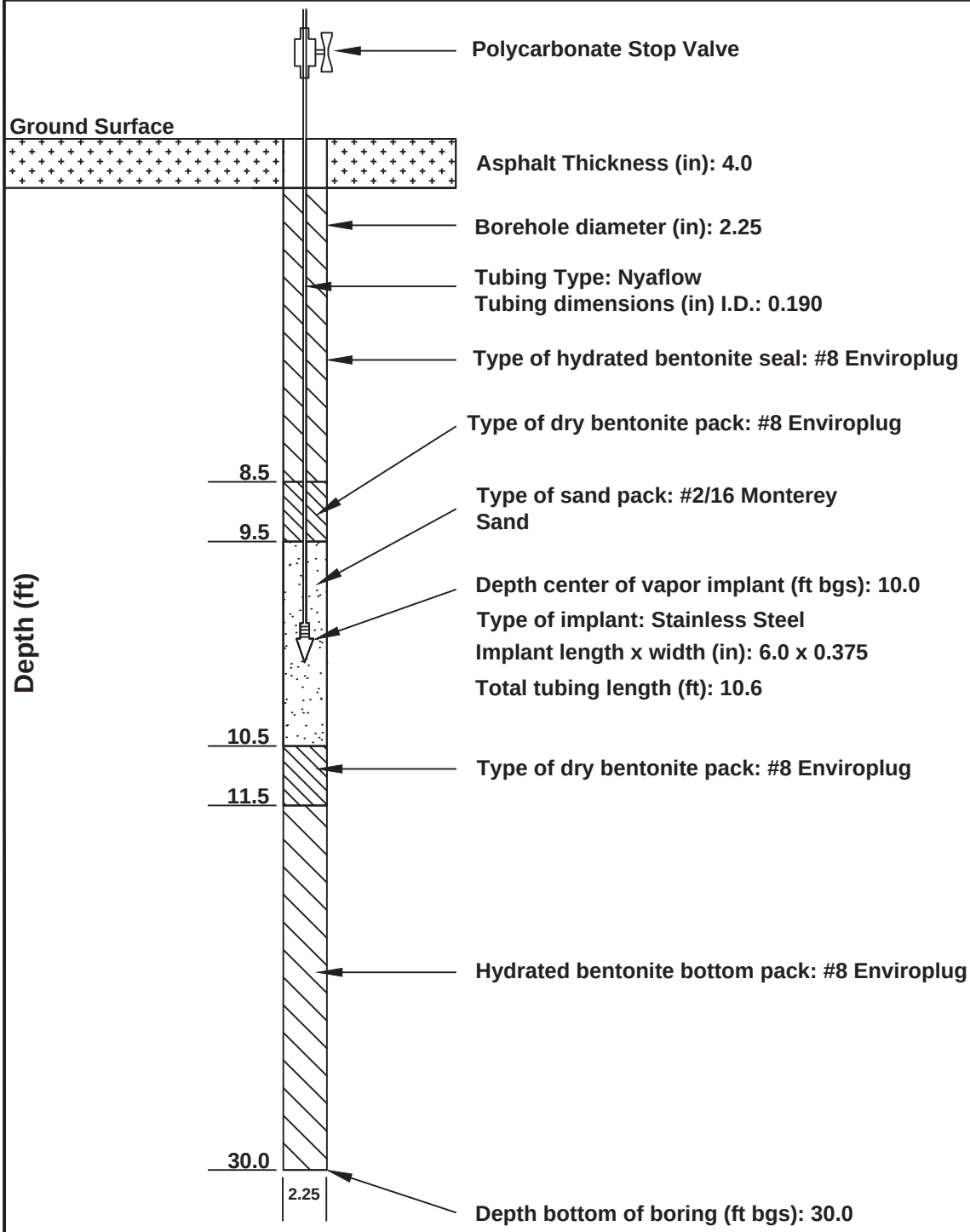


Northgate Environmental Management
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
(949) 716-0050; fax (949) 716-0055

Temporary Vapor Probe Construction Detail

Project Number: 2047.15		**Probe Identification: B-6-10.0'**
Project Name: Holland 3rd & Fairfax		**Location: 6300 W. 3rd Street, Los Angeles, CA**
Installed By: BC2 Environmental		**Drawn By: Dana R. Brown**
Drilling Method: Direct Push	**Date Started: 1/29/2018**	**Date Completed: 1/29/2018**
Borehole Dia. (in): 2.25	**Total Depth (ft): 30.0**	**Depth to Water (ft): NA**

Remarks: Temporary vapor probe installed at 10.0' below ground surface.

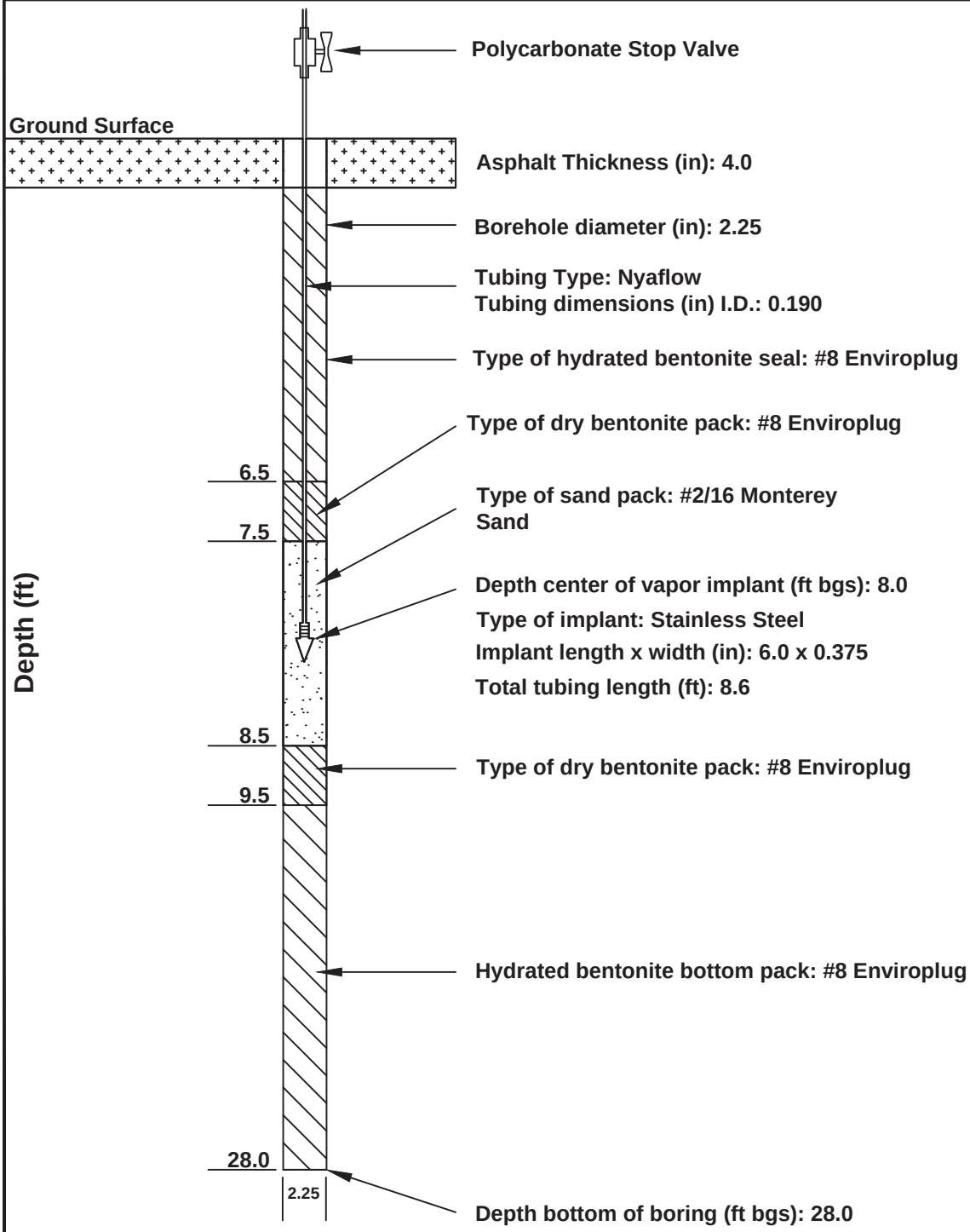


Northgate Environmental Management
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
(949) 716-0050; fax (949) 716-0055

Temporary Vapor Probe Construction Detail

Project Number: 2047.15		**Probe Identification: B-11-8.0'**
Project Name: Holland 3rd & Fairfax		**Location: 6300 W. 3rd Street, Los Angeles, CA**
Installed By: BC2 Environmental		**Drawn By: Dana R. Brown**
Drilling Method: Direct Push	**Date Started: 1/29/2018**	**Date Completed: 1/29/2018**
Borehole Dia. (in): 2.25	**Total Depth (ft): 28.0**	**Depth to Water (ft): 22.1**

Remarks: Temporary vapor probe installed at 8.0' below ground surface.



Northgate Environmental Management
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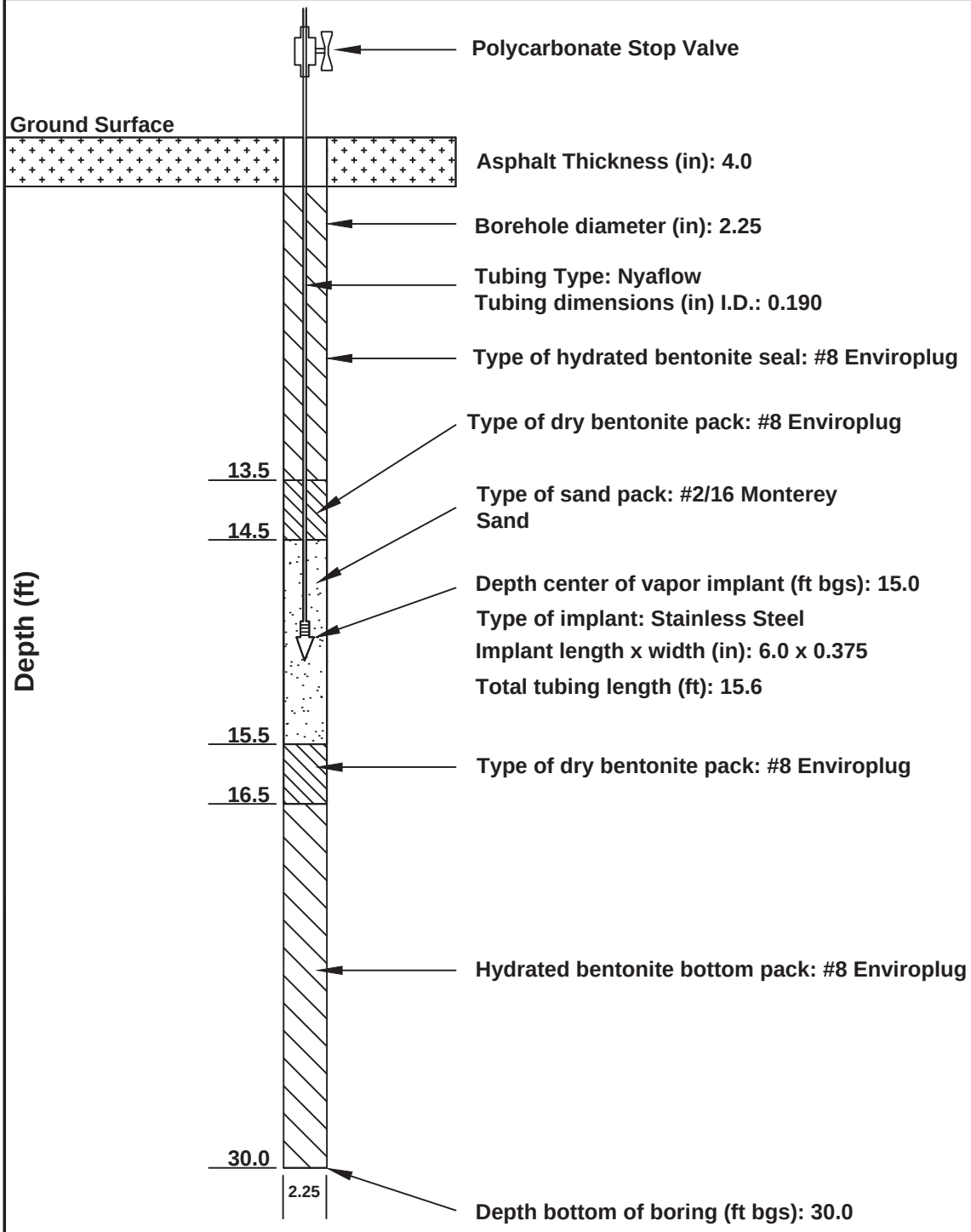
(949) 716-0050; fax (949) 716-0055

Temporary Vapor Probe Construction Detail

Project Number: 2047.15		**Probe Identification: B-12-15.0'**
Project Name: Holland 3rd & Fairfax		**Location: 6300 W. 3rd Street, Los Angeles, CA**
Installed By: BC2 Environmental		**Drawn By: Dana R. Brown**
Drilling Method: Direct Push	**Date Started: 1/31/2018**	**Date Completed: 1/31/2018**
Borehole Dia. (in): 2.25	**Total Depth (ft): 30.0**	**Depth to Water (ft): NA**

Remarks: Temporary vapor probe installed at 15.0' below ground surface.



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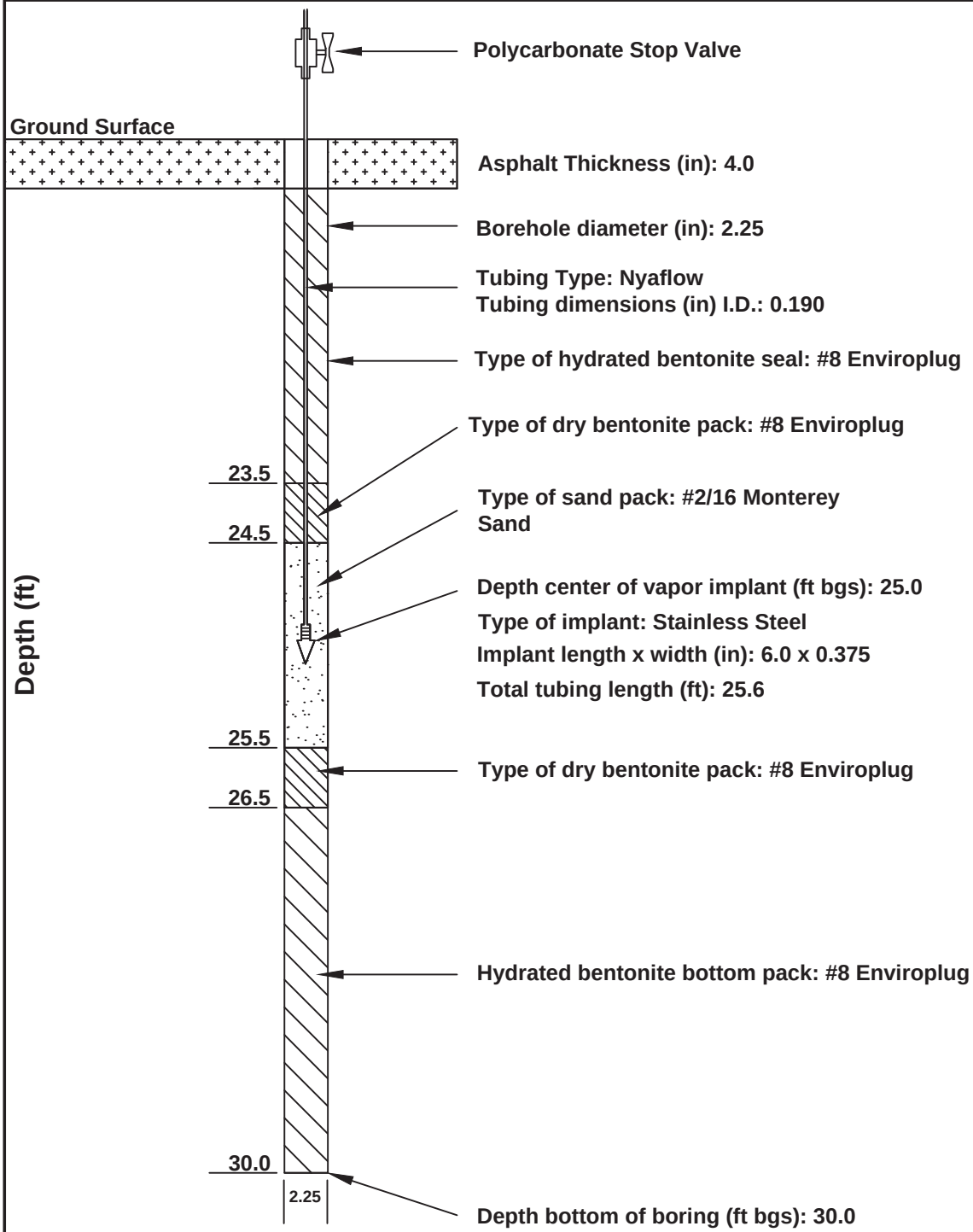
Laguna Hills, CA 92653
(949) 716-0050; fax (949) 716-0055

Temporary Vapor Probe Construction Detail

Project Number: 2047.15		**Probe Identification: B-15-25.0'**
Project Name: Holland 3rd & Fairfax		**Location: 6300 W. 3rd Street, Los Angeles, CA**
Installed By: BC2 Environmental		**Drawn By: Dana R. Brown**
Drilling Method: Direct Push	**Date Started: 1/31/2018**	**Date Completed: 1/31/2018**
Borehole Dia. (in): 2.25	**Total Depth (ft): 30.0**	**Depth to Water (ft): NA**

Remarks: Temporary vapor probe installed at 10.0' below ground surface.



APPENDIX D

LABORATORY ANALYTICAL REPORTS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
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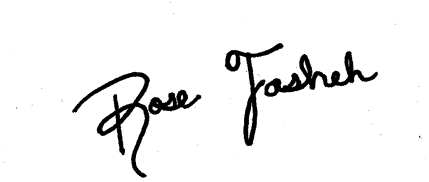
07 February 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rose Fasheh
Project Manager

SunStar Laboratories, Inc.
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Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-1.0	T180355-01	Soil	01/29/18 07:55	01/30/18 16:02
B-1- 10.0	T180355-03	Soil	01/29/18 08:19	01/30/18 16:02
B-1- 20.0	T180355-05	Soil	01/29/18 08:29	01/30/18 16:02
B-2- 1.0	T180355-08	Soil	01/29/18 13:30	01/30/18 16:02
B-2- 10.0	T180355-10	Soil	01/29/18 13:48	01/30/18 16:02
B-2- 20.0	T180355-12	Soil	01/29/18 14:00	01/30/18 16:02
B-2	T180355-14	Water	01/29/18 14:30	01/30/18 16:02
B-6- 1.0	T180355-15	Soil	01/29/18 15:37	01/30/18 16:02
B-6- 10.0	T180355-17	Soil	01/29/18 15:51	01/30/18 16:02
B-6- 20.0	T180355-19	Soil	01/29/18 16:01	01/30/18 16:02
B-11- 1.0	T180355-22	Soil	01/29/18 10:00	01/30/18 16:02
B-11- 10.0	T180355-24	Soil	01/29/18 10:15	01/30/18 16:02
B-11- 20.0	T180355-26	Soil	01/29/18 10:25	01/30/18 16:02
B-11	T180355-28	Water	01/29/18 11:50	01/30/18 16:02

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

DETECTIONS SUMMARY

Sample ID: B-1-1.0 **Laboratory ID:** T180355-01

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**87**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**920**	10	mg/kg	EPA 8015B	
Barium	**110**	1.0	mg/kg	EPA 6010B	
Chromium	**26**	2.0	mg/kg	EPA 6010B	
Cobalt	**13**	2.0	mg/kg	EPA 6010B	
Copper	**9.8**	1.0	mg/kg	EPA 6010B	
Nickel	**16**	2.0	mg/kg	EPA 6010B	
Vanadium	**46**	5.0	mg/kg	EPA 6010B	
Zinc	**51**	1.0	mg/kg	EPA 6010B	
Toluene	**14**	1.4	ug/kg	EPA 8260B/5035	

Sample ID: B-1- 10.0 **Laboratory ID:** T180355-03

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**17**	10	mg/kg	EPA 8015B	
Barium	**46**	1.0	mg/kg	EPA 6010B	
Chromium	**22**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**11**	1.0	mg/kg	EPA 6010B	
Nickel	**23**	2.0	mg/kg	EPA 6010B	
Vanadium	**36**	5.0	mg/kg	EPA 6010B	
Zinc	**36**	1.0	mg/kg	EPA 6010B	

Sample ID: B-1- 20.0 **Laboratory ID:** T180355-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**47**	1.0	mg/kg	EPA 6010B	
Chromium	**17**	2.0	mg/kg	EPA 6010B	
Cobalt	**6.7**	2.0	mg/kg	EPA 6010B	
Copper	**5.4**	1.0	mg/kg	EPA 6010B	
Nickel	**11**	2.0	mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Sample ID: B-1- 20.0 **Laboratory ID:** T180355-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Vanadium	**19**	5.0	mg/kg	EPA 6010B	
Zinc	**16**	1.0	mg/kg	EPA 6010B	

Sample ID: B-2- 1.0 **Laboratory ID:** T180355-08

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**260**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**860**	10	mg/kg	EPA 8015B	
Barium	**56**	1.0	mg/kg	EPA 6010B	
Chromium	**22**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**5.0**	1.0	mg/kg	EPA 6010B	
Nickel	**13**	2.0	mg/kg	EPA 6010B	
Vanadium	**39**	5.0	mg/kg	EPA 6010B	
Zinc	**32**	1.0	mg/kg	EPA 6010B	

Sample ID: B-2- 10.0 **Laboratory ID:** T180355-10

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**54**	1.0	mg/kg	EPA 6010B	
Chromium	**23**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**9.3**	1.0	mg/kg	EPA 6010B	
Nickel	**19**	2.0	mg/kg	EPA 6010B	
Vanadium	**26**	5.0	mg/kg	EPA 6010B	
Zinc	**33**	1.0	mg/kg	EPA 6010B	
Benzene	**4.1**	1.6	ug/kg	EPA 8260B/5035	

Sample ID: B-2- 20.0 **Laboratory ID:** T180355-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**11**	10	mg/kg	EPA 8015B	
Barium	**91**	1.0	mg/kg	EPA 6010B	
Chromium	**35**	2.0	mg/kg	EPA 6010B	

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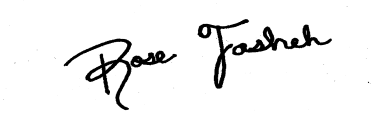

Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Sample ID: B-2- 20.0 **Laboratory ID:** T180355-12

Analyte	Result	Reporting Limit	Units	Method	Notes
Cobalt	**17**	2.0	mg/kg	EPA 6010B	
Copper	**15**	1.0	mg/kg	EPA 6010B	
Nickel	**26**	2.0	mg/kg	EPA 6010B	
Vanadium	**34**	5.0	mg/kg	EPA 6010B	
Zinc	**37**	1.0	mg/kg	EPA 6010B	

Sample ID: B-2 **Laboratory ID:** T180355-14

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**0.52**	0.50	mg/l	EPA 8015B	
Barium	**150**	50	ug/l	EPA 6010b	
Toluene	**0.92**	0.50	ug/l	EPA 8260B	

Sample ID: B-6- 1.0 **Laboratory ID:** T180355-15

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**160**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1000**	10	mg/kg	EPA 8015B	
Barium	**79**	1.0	mg/kg	EPA 6010B	
Chromium	**27**	2.0	mg/kg	EPA 6010B	
Cobalt	**13**	2.0	mg/kg	EPA 6010B	
Copper	**12**	1.0	mg/kg	EPA 6010B	
Nickel	**15**	2.0	mg/kg	EPA 6010B	
Vanadium	**55**	5.0	mg/kg	EPA 6010B	
Zinc	**55**	1.0	mg/kg	EPA 6010B	

Sample ID: B-6- 10.0 **Laboratory ID:** T180355-17

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**71**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.1**	2.0	mg/kg	EPA 6010B	
Copper	**15**	1.0	mg/kg	EPA 6010B	
Nickel	**20**	2.0	mg/kg	EPA 6010B	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Sample ID: B-6- 10.0 **Laboratory ID:** T180355-17

Analyte	Result	Reporting Limit	Units	Method	Notes
Vanadium	**21**	5.0	mg/kg	EPA 6010B	
Zinc	**38**	1.0	mg/kg	EPA 6010B	

Sample ID: B-6- 20.0 **Laboratory ID:** T180355-19

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**120**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**8.8**	2.0	mg/kg	EPA 6010B	
Copper	**12**	1.0	mg/kg	EPA 6010B	
Nickel	**18**	2.0	mg/kg	EPA 6010B	
Vanadium	**31**	5.0	mg/kg	EPA 6010B	
Zinc	**35**	1.0	mg/kg	EPA 6010B	

Sample ID: B-11- 1.0 **Laboratory ID:** T180355-22

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**180**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1100**	10	mg/kg	EPA 8015B	
Barium	**87**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**8.5**	1.0	mg/kg	EPA 6010B	
Nickel	**12**	2.0	mg/kg	EPA 6010B	
Vanadium	**36**	5.0	mg/kg	EPA 6010B	
Zinc	**35**	1.0	mg/kg	EPA 6010B	
Ethylbenzene	**2.1**	1.8	ug/kg	EPA 8260B/5035	
m,p-Xylene	**4.6**	3.6	ug/kg	EPA 8260B/5035	

Sample ID: B-11- 10.0 **Laboratory ID:** T180355-24

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**500**	350	ug/kg	EPA 8015B/5035	
C13-C28 (DRO)	**770**	10	mg/kg	EPA 8015B	

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Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Sample ID: B-11- 10.0 **Laboratory ID:** T180355-24

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**780**	10	mg/kg	EPA 8015B	
Barium	**73**	1.0	mg/kg	EPA 6010B	
Chromium	**26**	2.0	mg/kg	EPA 6010B	
Cobalt	**23**	2.0	mg/kg	EPA 6010B	
Copper	**12**	1.0	mg/kg	EPA 6010B	
Nickel	**29**	2.0	mg/kg	EPA 6010B	
Vanadium	**33**	5.0	mg/kg	EPA 6010B	
Zinc	**37**	1.0	mg/kg	EPA 6010B	

Sample ID: B-11- 20.0 **Laboratory ID:** T180355-26

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**79**	1.0	mg/kg	EPA 6010B	
Chromium	**29**	2.0	mg/kg	EPA 6010B	
Cobalt	**15**	2.0	mg/kg	EPA 6010B	
Copper	**14**	1.0	mg/kg	EPA 6010B	
Nickel	**26**	2.0	mg/kg	EPA 6010B	
Vanadium	**52**	5.0	mg/kg	EPA 6010B	
Zinc	**47**	1.0	mg/kg	EPA 6010B	
Benzene	**2.1**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B-11 **Laboratory ID:** T180355-28

No Results Detected

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-1-1.0

T180355-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	350	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*65.9 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**87**	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	**920**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*103 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**110**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**26**	2.0	"	"	"	"	"	"	
Cobalt	**13**	2.0	"	"	"	"	"	"	
Copper	**9.8**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**16**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**46**	5.0	"	"	"	"	"	"	
Zinc	**51**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*101 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*131 %*	*35-140*		"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-1-1.0

T180355-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*67.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*50.7 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.4	"	"	"	"	"	"	
Bromodichloromethane	ND	1.4	"	"	"	"	"	"	
Bromoform	ND	1.4	"	"	"	"	"	"	
Bromomethane	ND	1.4	"	"	"	"	"	"	
n-Butylbenzene	ND	1.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.4	"	"	"	"	"	"	
Chlorobenzene	ND	1.4	"	"	"	"	"	"	
Chloroethane	ND	1.4	"	"	"	"	"	"	
Chloroform	ND	1.4	"	"	"	"	"	"	
Chloromethane	ND	1.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.4	"	"	"	"	"	"	
Dibromochloromethane	ND	1.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.4	"	"	"	"	"	"	
Dibromomethane	ND	1.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.4	"	"	"	"	"	"	

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T180355-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.4	"	"	"	"	"	"	
Isopropylbenzene	ND	1.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.4	"	"	"	"	"	"	
Methylene chloride	ND	1.4	"	"	"	"	"	"	
Naphthalene	ND	1.4	"	"	"	"	"	"	
n-Propylbenzene	ND	1.4	"	"	"	"	"	"	
Styrene	ND	1.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.4	"	"	"	"	"	"	
Tetrachloroethene	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.4	"	"	"	"	"	"	
Trichloroethene	ND	1.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.4	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.4	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.4	"	"	"	"	"	"	
Benzene	ND	1.4	"	"	"	"	"	"	
Toluene	**14**	1.4	"	"	"	"	"	"	
Ethylbenzene	ND	1.4	"	"	"	"	"	"	
m,p-Xylene	ND	2.9	"	"	"	"	"	"	
o-Xylene	ND	1.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	3000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Phenol	ND	10000	"	"	"	"	"	"	R-07
Aniline	ND	3000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	10000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	3000	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthene	ND	3000	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	3000	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	10000	"	"	"	"	"	"	R-07
Pyrene	ND	3000	"	"	"	"	"	"	R-07
Acenaphthylene	ND	3000	"	"	"	"	"	"	R-07
Anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	3000	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	3000	"	"	"	"	"	"	R-07

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T180355-01 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	10000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	3000	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	3000	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	3000	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	3000	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	3000	"	"	"	"	"	"	R-07
Chrysene	ND	3000	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	3000	"	"	"	"	"	"	R-07
Dibenzofuran	ND	3000	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	3000	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	3000	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	10000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	3000	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	10000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	10000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	10000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	3000	"	"	"	"	"	"	R-07
Fluoranthene	ND	3000	"	"	"	"	"	"	R-07
Fluorene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	15000	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	3000	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	10000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	3000	"	"	"	"	"	"	R-07

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T180355-01 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	3000	ug/kg	10	8020137	02/01/18	02/05/18	EPA 8270C	R-07
Isophorone	ND	3000	"	"	"	"	"	"	R-07
2-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	10000	"	"	"	"	"	"	R-07
Naphthalene	ND	3000	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	3000	"	"	"	"	"	"	R-07
Nitrobenzene	ND	10000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	10000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	3000	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	3000	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	3000	"	"	"	"	"	"	R-07
Phenanthrene	ND	3000	"	"	"	"	"	"	R-07
Azobenzene	ND	3000	"	"	"	"	"	"	R-07
Pyridine	ND	3000	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	10000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*89.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*72.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*77.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*64.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*72.4 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*89.9 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-1- 10.0

T180355-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	430	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*72.6 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**17**	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*110 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**46**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**23**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**36**	5.0	"	"	"	"	"	"	
Zinc	**36**	1.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-1- 10.0

T180355-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*50.3 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*45.6 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-03 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.3 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-03 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-03 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*85.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*75.8 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*89.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*85.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*77.0 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*104 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	290	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*109 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**47**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**17**	2.0	"	"	"	"	"	"	
Cobalt	**6.7**	2.0	"	"	"	"	"	"	
Copper	**5.4**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**11**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**19**	5.0	"	"	"	"	"	"	
Zinc	**16**	1.0	"	"	"	"	"	"	

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B-1- 20.0

T180355-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*63.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*51.8 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	1.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	1.5	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	1.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.1	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	1.5	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	
Styrene	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-1- 20.0

T180355-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.5	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Benzene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
m,p-Xylene	ND	3.1	"	"	"	"	"	"	
o-Xylene	ND	1.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.3 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-05 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-05 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*89.0 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*75.8 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*87.3 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*89.4 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*92.6 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*106 %*	*29.1-130*		"	"	"	"	

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B-2- 1.0

T180355-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	380	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*46.0 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**260**	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	**860**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*106 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**56**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**5.0**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**13**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**39**	5.0	"	"	"	"	"	"	
Zinc	**32**	1.0	"	"	"	"	"	"	

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T180355-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4´-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4´-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4´-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*70.6 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*65.2 %*	*35-140*		"	"	"	"	

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T180355-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*53.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*46.0 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.5	"	"	"	"	"	"	
Bromodichloromethane	ND	1.5	"	"	"	"	"	"	
Bromoform	ND	1.5	"	"	"	"	"	"	
Bromomethane	ND	1.5	"	"	"	"	"	"	
n-Butylbenzene	ND	1.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.5	"	"	"	"	"	"	
Chlorobenzene	ND	1.5	"	"	"	"	"	"	
Chloroethane	ND	1.5	"	"	"	"	"	"	
Chloroform	ND	1.5	"	"	"	"	"	"	
Chloromethane	ND	1.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.5	"	"	"	"	"	"	
Dibromochloromethane	ND	1.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.5	"	"	"	"	"	"	
Dibromomethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.5	"	"	"	"	"	"	

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T180355-08 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	"	
Isopropylbenzene	ND	1.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.5	"	"	"	"	"	"	
Methylene chloride	ND	1.5	"	"	"	"	"	"	
Naphthalene	ND	1.5	"	"	"	"	"	"	
n-Propylbenzene	ND	1.5	"	"	"	"	"	"	
Styrene	ND	1.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.5	"	"	"	"	"	"	
Tetrachloroethene	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.5	"	"	"	"	"	"	
Trichloroethene	ND	1.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.5	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-2- 1.0

T180355-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.5	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.5	"	"	"	"	"	"	
Benzene	ND	1.5	"	"	"	"	"	"	
Toluene	ND	1.5	"	"	"	"	"	"	
Ethylbenzene	ND	1.5	"	"	"	"	"	"	
m,p-Xylene	ND	3.1	"	"	"	"	"	"	
o-Xylene	ND	1.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-08 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-08 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*78.8 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*71.6 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*81.4 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*83.9 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*87.3 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*95.6 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-10 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	350	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*63.0 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*110 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**54**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**23**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**9.3**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**19**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**26**	5.0	"	"	"	"	"	"	
Zinc	**33**	1.0	"	"	"	"	"	"	

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T180355-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*50.5 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	1.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.2	"	"	"	"	"	"	

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T180355-10 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	
Styrene	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	

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T180355-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.6	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Benzene	**4.1**	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.2	"	"	"	"	"	"	
o-Xylene	ND	1.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.1 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-10 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-2- 10.0

T180355-10 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*64.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*78.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*90.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*86.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*96.8 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*109 %*	*29.1-130*		"	"	"	"	

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T180355-12 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	410	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**11**	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*99.0 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**91**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**35**	2.0	"	"	"	"	"	"	
Cobalt	**17**	2.0	"	"	"	"	"	"	
Copper	**15**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**26**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**34**	5.0	"	"	"	"	"	"	
Zinc	**37**	1.0	"	"	"	"	"	"	

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T180355-12 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*62.6 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*57.0 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	2.4	"	"	"	"	"	"	
Bromodichloromethane	ND	2.4	"	"	"	"	"	"	
Bromoform	ND	2.4	"	"	"	"	"	"	
Bromomethane	ND	2.4	"	"	"	"	"	"	
n-Butylbenzene	ND	2.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.4	"	"	"	"	"	"	
Chlorobenzene	ND	2.4	"	"	"	"	"	"	
Chloroethane	ND	2.4	"	"	"	"	"	"	
Chloroform	ND	2.4	"	"	"	"	"	"	
Chloromethane	ND	2.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
Dibromochloromethane	ND	2.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.7	"	"	"	"	"	"	

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T180355-12 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.4	"	"	"	"	"	"	
Isopropylbenzene	ND	2.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.4	"	"	"	"	"	"	
Methylene chloride	ND	2.4	"	"	"	"	"	"	
Naphthalene	ND	2.4	"	"	"	"	"	"	
n-Propylbenzene	ND	2.4	"	"	"	"	"	"	
Styrene	ND	2.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
Tetrachloroethene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.4	"	"	"	"	"	"	

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T180355-12 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	2.4	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
Vinyl chloride	ND	2.4	"	"	"	"	"	"	
Benzene	ND	2.4	"	"	"	"	"	"	
Toluene	ND	2.4	"	"	"	"	"	"	
Ethylbenzene	ND	2.4	"	"	"	"	"	"	
m,p-Xylene	ND	4.7	"	"	"	"	"	"	
o-Xylene	ND	2.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.7 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-12 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-12 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*71.1 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*64.6 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*68.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*75.4 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*92.8 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*107 %*	*29.1-130*		"	"	"	"	

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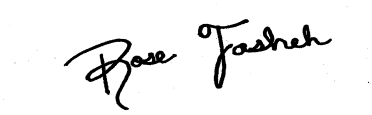

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-14 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8013123	01/31/18	01/31/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*96.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**0.52**	0.50	mg/l	1	8013130	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*80.9 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									**FILT**
Antimony	ND	50	ug/l	1	8013139	01/31/18	02/01/18	EPA 6010b	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	**150**	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	ND	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-14 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									**FILT**
Mercury	ND	0.50	ug/l	1	8013140	01/31/18	02/01/18	EPA 7470A Water	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8013122	01/31/18	01/31/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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T180355-14 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	8013122	01/31/18	01/31/18	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	**0.92**	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*81-136*		"	"	"	"	

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T180355-14 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8	*106 %*		*88.8-117*		*8013122*	*01/31/18*	*01/31/18*	*EPA 8260B*	

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T180355-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	320	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*85.4 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**160**	10	mg/kg	1	8013128	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	**1000**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*101 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**79**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**27**	2.0	"	"	"	"	"	"	
Cobalt	**13**	2.0	"	"	"	"	"	"	
Copper	**12**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**15**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**55**	5.0	"	"	"	"	"	"	
Zinc	**55**	1.0	"	"	"	"	"	"	

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T180355-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4´-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4´-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4´-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*91.3 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*83.3 %*	*35-140*		"	"	"	"	

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T180355-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*65.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*52.7 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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T180355-15 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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B-6- 1.0

T180355-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.9	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-6- 1.0

T180355-15 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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T180355-15 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*62.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*78.3 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*75.7 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*82.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*86.9 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*101 %*	*29.1-130*		"	"	"	"	

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T180355-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	380	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*68.5 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*104 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**71**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**9.1**	2.0	"	"	"	"	"	"	
Copper	**15**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**20**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**21**	5.0	"	"	"	"	"	"	
Zinc	**38**	1.0	"	"	"	"	"	"	

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T180355-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*56.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*55.2 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180355-17 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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T180355-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/01/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-17 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-17 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*70.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*60.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.1 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*76.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*85.8 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*112 %*	*29.1-130*		"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	330	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*72.1 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*106 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**120**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**8.8**	2.0	"	"	"	"	"	"	
Copper	**12**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**18**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**31**	5.0	"	"	"	"	"	"	
Zinc	**35**	1.0	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180355-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53.6 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180355-19 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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T180355-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*94.0 %*	*95.7-135*		"	"	"	"	*S-GC*
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-19 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-19 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*74.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*61.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*70.0 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*68.9 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*86.1 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*97.5 %*	*29.1-130*		"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	320	ug/kg	1	8013124	01/31/18	01/31/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*47.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**180**	10	mg/kg	1	8013128	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	**1100**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*108 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**87**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**8.5**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**12**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**36**	5.0	"	"	"	"	"	"	
Zinc	**35**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

B-11- 1.0

T180355-22 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	10	ug/kg	2	8013136	01/31/18	02/01/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	R-07
beta-BHC	ND	10	"	"	"	"	"	"	R-07
delta-BHC	ND	10	"	"	"	"	"	"	R-07
Heptachlor	ND	10	"	"	"	"	"	"	R-07
Aldrin	ND	10	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	10	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	10	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	10	"	"	"	"	"	"	R-07
Endosulfan I	ND	10	"	"	"	"	"	"	R-07
4,4´-DDE	ND	10	"	"	"	"	"	"	R-07
Dieldrin	ND	10	"	"	"	"	"	"	R-07
Endrin	ND	10	"	"	"	"	"	"	R-07
4,4´-DDD	ND	10	"	"	"	"	"	"	R-07
Endosulfan II	ND	10	"	"	"	"	"	"	R-07
4,4´-DDT	ND	10	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	10	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	10	"	"	"	"	"	"	R-07
Methoxychlor	ND	20	"	"	"	"	"	"	R-07
Endrin ketone	ND	10	"	"	"	"	"	"	R-07
Toxaphene	ND	400	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*84.2 %*	*35-140*		"	"	"	"	*R-07*
Surrogate: Decachlorobiphenyl		*89.7 %*	*35-140*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*65.3 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*51.5 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	**2.1**	1.8	"	"	"	"	"	"	
m,p-Xylene	**4.6**	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*70.1 %*	*85.5-116*		*"*	*"*	*"*	*"*	*S-GC*
Surrogate: 4-Bromofluorobenzene		*67.0 %*	*81.2-123*		*"*	*"*	*"*	*"*	*S-GC*
Surrogate: Dibromofluoromethane		*100 %*	*95.7-135*		*"*	*"*	*"*	*"*	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180355-22 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*80.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*67.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.8 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*87.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*77.3 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*84.0 %*	*29.1-130*		"	"	"	"	

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T180355-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	**500**	350	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*64.5 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**770**	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	**780**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*98.5 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**73**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**26**	2.0	"	"	"	"	"	"	
Cobalt	**23**	2.0	"	"	"	"	"	"	
Copper	**12**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**29**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**33**	5.0	"	"	"	"	"	"	
Zinc	**37**	1.0	"	"	"	"	"	"	

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T180355-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.2 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*48.3 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-24 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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T180355-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.8	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*83.9 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*78.4 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*109 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-24 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-24 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*57.2 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*66.9 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*86.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*78.9 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*80.3 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*104 %*	*29.1-130*		"	"	"	"	

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T180355-26 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	340	ug/kg	1	8013124	01/31/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*65.5 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8013128	01/31/18	01/31/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*101 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8013127	01/31/18	02/01/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**79**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**29**	2.0	"	"	"	"	"	"	
Cobalt	**15**	2.0	"	"	"	"	"	"	
Copper	**14**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**26**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**52**	5.0	"	"	"	"	"	"	
Zinc	**47**	1.0	"	"	"	"	"	"	

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T180355-26 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8013126	01/31/18	02/01/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8013129	01/31/18	02/01/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*57.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53.4 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	

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T180355-26 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

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T180355-26 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8013121	01/31/18	02/03/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**2.1**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.6 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.9 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.7 %*		*95.7-135*	"	"	"	"	*S-GC*
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180355-26 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180355-26 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*63.1 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*70.8 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*82.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*86.5 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*108 %*	*29.1-130*		"	"	"	"	

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T180355-28 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8013123	01/31/18	01/31/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	0.50	mg/l	1	8013130	01/31/18	02/01/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*77.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8013122	01/31/18	02/01/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	

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T180355-28 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.50	ug/l	1	8013122	01/31/18	02/01/18	EPA 8260B	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	

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T180355-28 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylbenzene	ND	0.50	ug/l	1	8013122	01/31/18	02/01/18	EPA 8260B	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*88.8-117*		"	"	"	"	

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Purgeable Petroleum Hydrocarbons by EPA 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013123 - EPA 5030 GC										
Blank (8013123-BLK1)				Prepared & Analyzed: 01/31/18						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	*118*		*"*	*100*		*118*	*65-135*			
LCS (8013123-BS1)				Prepared & Analyzed: 01/31/18						
C6-C12 (GRO)	1010	50	ug/l	1000		101	75-125			
Surrogate: 4-Bromofluorobenzene	*122*		*"*	*100*		*122*	*65-135*			
LCS Dup (8013123-BSD1)				Prepared & Analyzed: 01/31/18						
C6-C12 (GRO)	980	50	ug/l	1000		98.0	75-125	2.80	20	
Surrogate: 4-Bromofluorobenzene	*104*		*"*	*100*		*104*	*65-135*			
Batch 8013124 - EPA 5035 GC										
Blank (8013124-BLK1)				Prepared & Analyzed: 01/31/18						
C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*65-135*			
LCS (8013124-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
C6-C12 (GRO)	1560	400	ug/kg	2000		78.0	75-125			
Surrogate: 4-Bromofluorobenzene	*87.0*		*"*	*100*		*87.0*	*65-135*			
LCS Dup (8013124-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
C6-C12 (GRO)	1500	400	ug/kg	1980		75.6	75-125	4.09	20	
Surrogate: 4-Bromofluorobenzene	*78.6*		*"*	*100*		*78.6*	*65-135*			

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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013128 - EPA 3550B GC										
Blank (8013128-BLK1)				Prepared & Analyzed: 01/31/18						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*105*		*"*	*102*		*103*	*65-135*			
LCS (8013128-BS1)				Prepared & Analyzed: 01/31/18						
C13-C28 (DRO)	580	10	mg/kg	505		115	75-125			
Surrogate: p-Terphenyl	*105*		*"*	*101*		*104*	*65-135*			
LCS Dup (8013128-BSD1)				Prepared & Analyzed: 01/31/18						
C13-C28 (DRO)	580	10	mg/kg	500		116	75-125	0.519	20	
Surrogate: p-Terphenyl	*103*		*"*	*100*		*103*	*65-135*			
Batch 8013130 - EPA 3510C GC										
Blank (8013130-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: p-Terphenyl	*2.70*		*"*	*4.00*		*67.6*	*65-135*			
LCS (8013130-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
C13-C28 (DRO)	16.5	0.50	mg/l	20.0		82.6	75-125			
Surrogate: p-Terphenyl	*2.95*		*"*	*4.00*		*73.8*	*65-135*			
LCS Dup (8013130-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
C13-C28 (DRO)	17.0	0.50	mg/l	20.0		85.0	75-125	2.79	20	
Surrogate: p-Terphenyl	*2.99*		*"*	*4.00*		*74.8*	*65-135*			

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013127 - EPA 3050B										
Blank (8013127-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
LCS (8013127-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Arsenic	117	5.0	mg/kg	100		117	75-125			
Barium	112	1.0	"	100		112	75-125			
Cadmium	111	2.0	"	100		111	75-125			
Chromium	110	2.0	"	100		110	75-125			
Lead	118	3.0	"	100		118	75-125			
Matrix Spike (8013127-MS1)	**Source: T180355-01**			Prepared: 01/31/18 Analyzed: 02/01/18						
Arsenic	97.7	5.0	mg/kg	98.0	ND	99.7	75-125			
Barium	187	1.0	"	98.0	108	81.4	75-125			
Cadmium	92.9	2.0	"	98.0	0.875	93.8	75-125			
Chromium	116	2.0	"	98.0	26.2	91.2	75-125			
Lead	108	3.0	"	98.0	ND	110	75-125			

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013127 - EPA 3050B										
Matrix Spike Dup (8013127-MSD1)	**Source: T180355-01**			Prepared: 01/31/18 Analyzed: 02/01/18						
Arsenic	88.2	5.0	mg/kg	98.0	ND	90.0	75-125	10.2	20	
Barium	189	1.0	"	98.0	108	82.6	75-125	0.643	20	
Cadmium	91.4	2.0	"	98.0	0.875	92.4	75-125	1.56	20	
Chromium	115	2.0	"	98.0	26.2	90.1	75-125	0.924	20	
Lead	109	3.0	"	98.0	ND	111	75-125	0.740	20	
Batch 8013139 - EPA 3010A										
Blank (8013139-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						**FILT**
Antimony	ND	50	ug/l							
Silver	ND	50	"							
Arsenic	ND	50	"							
Barium	ND	50	"							
Beryllium	ND	50	"							
Cadmium	ND	50	"							
Chromium	ND	50	"							
Cobalt	ND	50	"							
Copper	ND	50	"							
Lead	ND	50	"							
Molybdenum	ND	50	"							
Nickel	ND	50	"							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	"							
Zinc	ND	50	"							
LCS (8013139-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						**FILT**
Arsenic	502	50	ug/l	500		100	75-125			
Barium	500	50	"	500		100	75-125			
Cadmium	501	50	"	500		100	75-125			
Chromium	500	50	"	500		100	75-125			
Lead	509	50	"	500		102	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013139 - EPA 3010A										
Matrix Spike (8013139-MS1)	**Source: T180355-14**			Prepared: 01/31/18 Analyzed: 02/01/18						**FILT**
Arsenic	524	50	ug/l	500	28.9	99.0	75-125			
Barium	604	50	"	500	154	89.9	75-125			
Cadmium	467	50	"	500	ND	93.3	75-125			
Chromium	489	50	"	500	21.5	93.4	75-125			
Lead	476	50	"	500	ND	95.2	75-125			
Matrix Spike Dup (8013139-MSD1)	**Source: T180355-14**			Prepared: 01/31/18 Analyzed: 02/01/18						**FILT**
Arsenic	505	50	ug/l	500	28.9	95.3	75-125	3.64	20	
Barium	615	50	"	500	154	92.2	75-125	1.88	20	
Cadmium	477	50	"	500	ND	95.5	75-125	2.28	20	
Chromium	504	50	"	500	21.5	96.6	75-125	3.14	20	
Lead	476	50	"	500	ND	95.3	75-125	0.0936	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013126 - EPA 7471A Soil										
Blank (8013126-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	ND	0.10	mg/kg							
LCS (8013126-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.346	0.10	mg/kg	0.385		89.9	80-120			
Matrix Spike (8013126-MS1)		**Source: T180355-01**		Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.361	0.10	mg/kg	0.397	ND	91.0	75-125			
Matrix Spike Dup (8013126-MSD1)		**Source: T180355-01**		Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	0.355	0.10	mg/kg	0.397	ND	89.4	75-125	1.76	20	
Batch 8013140 - EPA 7470A Water										
Blank (8013140-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	ND	0.50	ug/l							
LCS (8013140-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	4.67	0.50	ug/l	5.00		93.4	80-120			
Matrix Spike (8013140-MS1)		**Source: T180355-14**		Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	3.10	0.50	ug/l	5.00	ND	61.9	75-125			FILT, QM-05
Matrix Spike Dup (8013140-MSD1)		**Source: T180355-14**		Prepared: 01/31/18 Analyzed: 02/01/18						
Mercury	3.09	0.50	ug/l	5.00	ND	61.7	75-125	0.293	20	FILT, QM-05

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013136 - EPA 3550 ECD/GCMS										
Blank (8013136-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4´-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4´-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4´-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	*8.93*		*"*	*10.0*		*89.3*	*35-140*			
Surrogate: Decachlorobiphenyl	*11.1*		*"*	*10.0*		*111*	*35-140*			
LCS (8013136-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
gamma-BHC (Lindane)	35.7	5.0	ug/kg	40.0		89.2	40-120			
Heptachlor	37.4	5.0	"	40.0		93.5	40-120			
Aldrin	35.8	5.0	"	40.0		89.5	40-120			
Dieldrin	37.6	5.0	"	40.0		94.1	40-120			
Endrin	37.8	5.0	"	40.0		94.4	40-120			
4,4´-DDT	38.4	5.0	"	40.0		95.9	33-147			
Surrogate: Tetrachloro-meta-xylene	*8.65*		*"*	*10.0*		*86.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*10.8*		*"*	*10.0*		*108*	*35-140*			

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013136 - EPA 3550 ECD/GCMS										
LCS Dup (8013136-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
gamma-BHC (Lindane)	36.7	5.0	ug/kg	40.0		91.7	40-120	2.75	30	
Heptachlor	38.5	5.0	"	40.0		96.1	40-120	2.81	30	
Aldrin	37.3	5.0	"	40.0		93.3	40-120	4.19	30	
Dieldrin	39.4	5.0	"	40.0		98.5	40-120	4.53	30	
Endrin	39.4	5.0	"	40.0		98.6	40-120	4.34	30	
4,4´-DDT	40.9	5.0	"	40.0		102	33-147	6.45	30	
Surrogate: Tetrachloro-meta-xylene	*8.65*		*"*	*10.0*		*86.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*11.3*		*"*	*10.0*		*113*	*35-140*			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013129 - EPA 3550 ECD/GCMS										
Blank (8013129-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	*6.44*		"	*10.1*		*63.8*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.77*		"	*10.1*		*67.0*	*35-140*			
LCS (8013129-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
PCB-1016	61.1	10	ug/kg	101		60.5	40-130			
PCB-1260	68.5	10	"	101		67.8	40-130			
Surrogate: Tetrachloro-meta-xylene	*7.17*		"	*10.1*		*71.0*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.98*		"	*10.1*		*69.1*	*35-140*			
LCS Dup (8013129-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
PCB-1016	55.5	10	ug/kg	98.0		56.6	40-130	9.64	30	
PCB-1260	60.2	10	"	98.0		61.4	40-130	12.9	30	
Surrogate: Tetrachloro-meta-xylene	*6.03*		"	*9.80*		*61.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.49*		"	*9.80*		*66.2*	*35-140*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
Blank (8013121-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							
4-Chlorotoluene	ND	2.0	"							
Dibromochloromethane	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
Dibromomethane	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
Dichlorodifluoromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
1,3-Dichloropropane	ND	2.0	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
Blank (8013121-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	*41.6*		*"*	*39.6*		*105*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*35.4*		*"*	*39.6*		*89.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*41.9*		*"*	*39.6*		*106*	*95.7-135*			
LCS (8013121-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	30.0	2.0	ug/kg	40.0		75.0	75-125			
1,1-Dichloroethene	48.5	2.0	"	40.0		121	75-125			
Trichloroethene	36.2	2.0	"	40.0		90.4	75-125			
Benzene	38.3	2.0	"	40.0		95.6	75-125			
Toluene	33.7	2.0	"	40.0		84.3	75-125			
Surrogate: Toluene-d8	*42.1*		*"*	*40.0*		*105*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.3*		*"*	*40.0*		*95.7*	*81.2-123*			
Surrogate: Dibromofluoromethane	*43.6*		*"*	*40.0*		*109*	*95.7-135*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
LCS Dup (8013121-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	36.3	2.0	ug/kg	39.6		91.5	75-125	18.8	20	
1,1-Dichloroethene	47.8	2.0	"	39.6		121	75-125	1.49	20	
Trichloroethene	42.8	2.0	"	39.6		108	75-125	16.7	20	
Benzene	46.4	2.0	"	39.6		117	75-125	19.2	20	
Toluene	40.2	2.0	"	39.6		101	75-125	17.4	20	
Surrogate: Toluene-d8	*41.9*		*"*	*39.6*		*106*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*36.4*		*"*	*39.6*		*91.9*	*81.2-123*			
Surrogate: Dibromofluoromethane	*42.2*		*"*	*39.6*		*106*	*95.7-135*			
Batch 8013122 - EPA 5030 GCMS										
Blank (8013122-BLK1)				Prepared & Analyzed: 01/31/18						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013122 - EPA 5030 GCMS										
Blank (8013122-BLK1)				Prepared & Analyzed: 01/31/18						
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013122 - EPA 5030 GCMS										
Blank (8013122-BLK1)				Prepared & Analyzed: 01/31/18						
Surrogate: 4-Bromofluorobenzene	*20.9*		*ug/l*	*20.0*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*22.6*		*"*	*20.0*		*113*	*81-136*			
Surrogate: Toluene-d8	*22.1*		*"*	*20.0*		*111*	*88.8-117*			
LCS (8013122-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	20.7	1.0	ug/l	20.0		103	75-125			
1,1-Dichloroethene	20.9	1.0	"	20.0		104	75-125			
Trichloroethene	19.1	1.0	"	20.0		95.4	75-125			
Benzene	21.0	0.50	"	20.0		105	75-125			
Toluene	21.1	0.50	"	20.0		105	75-125			
Surrogate: 4-Bromofluorobenzene	*21.4*		*"*	*20.0*		*107*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.7*		*"*	*20.0*		*109*	*81-136*			
Surrogate: Toluene-d8	*21.3*		*"*	*20.0*		*106*	*88.8-117*			
LCS Dup (8013122-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	21.0	1.0	ug/l	20.0		105	75-125	1.53	20	
1,1-Dichloroethene	20.9	1.0	"	20.0		104	75-125	0.0479	20	
Trichloroethene	20.3	1.0	"	20.0		101	75-125	6.00	20	
Benzene	21.8	0.50	"	20.0		109	75-125	4.16	20	
Toluene	21.5	0.50	"	20.0		108	75-125	1.93	20	
Surrogate: 4-Bromofluorobenzene	*21.6*		*"*	*20.0*		*108*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.6*		*"*	*20.0*		*108*	*81-136*			
Surrogate: Toluene-d8	*21.2*		*"*	*20.0*		*106*	*88.8-117*			

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Carbazole	ND	300	ug/kg							
Phenol	ND	1000	"							
Aniline	ND	300	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
2-Methylnaphthalene	ND	300	"							
1-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
Pyridine	ND	300	"							
2,4,6-Trichlorophenol	ND	1000	"							

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Surrogate: 2-Fluorophenol	*2550*		*ug/kg*	*3250*		*78.5*	*15-121*			
Surrogate: Phenol-d6	*2470*		*"*	*3250*		*76.0*	*24-113*			
Surrogate: Nitrobenzene-d5	*2510*		*"*	*3250*		*77.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2700*		*"*	*3250*		*83.3*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2880*		*"*	*3250*		*88.8*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3500*		*"*	*3250*		*108*	*29.1-130*			
LCS (8020137-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Phenol	2390	1000	ug/kg	3240		73.9	34-114			
2-Chlorophenol	2400	1000	"	3240		74.2	34-114			
1,4-Dichlorobenzene	2380	300	"	3240		73.5	34-114			
N-Nitrosodi-n-propylamine	2870	300	"	3240		88.6	30-110			
1,2,4-Trichlorobenzene	2450	300	"	3240		75.6	39-119			
4-Chloro-3-methylphenol	2120	1000	"	3240		65.4	50-130			
Acenaphthene	2530	300	"	3240		78.0	34-114			
Pentachlorophenol	1930	1000	"	3240		59.7	50-130			
Pyrene	2040	300	"	3240		62.9	30-110			
Surrogate: 2-Fluorophenol	*2410*		*"*	*3240*		*74.4*	*15-121*			
Surrogate: Phenol-d6	*2550*		*"*	*3240*		*78.9*	*24-113*			
Surrogate: Nitrobenzene-d5	*2940*		*"*	*3240*		*91.0*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2660*		*"*	*3240*		*82.3*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2820*		*"*	*3240*		*87.2*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3310*		*"*	*3240*		*102*	*29.1-130*			
LCS Dup (8020137-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Phenol	1860	1000	ug/kg	3330		55.9	34-114	24.7	42	
2-Chlorophenol	1990	1000	"	3330		59.7	34-114	18.7	40	
1,4-Dichlorobenzene	2060	300	"	3330		61.8	34-114	14.3	28	
N-Nitrosodi-n-propylamine	2220	300	"	3330		66.5	30-110	25.6	38	
1,2,4-Trichlorobenzene	2250	300	"	3330		67.4	39-119	8.48	28	
4-Chloro-3-methylphenol	2550	1000	"	3330		76.5	50-130	18.6	42	
Acenaphthene	2440	300	"	3330		73.3	34-114	3.34	31	
Pentachlorophenol	2160	1000	"	3330		65.0	50-130	11.4	50	
Pyrene	2090	300	"	3330		62.7	30-110	2.56	31	
Surrogate: 2-Fluorophenol	*2230*		*"*	*3330*		*66.9*	*15-121*			
Surrogate: Phenol-d6	*2040*		*"*	*3330*		*61.1*	*24-113*			

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
LCS Dup (8020137-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Surrogate: Nitrobenzene-d5	*2080*		*ug/kg*	*3330*		*62.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2480*		*"*	*3330*		*74.4*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2880*		*"*	*3330*		*86.4*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3330*		*"*	*3330*		*100*	*29.1-130*			

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/07/18 16:12

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-03	The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
FILT	The sample was filtered prior to analysis.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: NORTH GATE
Address: 24411 Ridge Route Dr. Laguna Hills, CA
Phone: 949-716-0050 Fax:
Project Manager: Derrick Willis

Date: 1/30/18 Page: 1 Of 2
Project Name: Holland 3/ Fairfax
Collector: G. Baade Client Project #: 2047.15
Batch #: T180335 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-1-1.0	1/29/18	7:55	S	VOA+G														01		7
B-1-5.0		8:14	S	VOA+AS														02		7
B-1-10.0		8:19	S	" "														03		7
B-1-15.0		8:24	S	" "														04		7
B-1-20.0		8:29	S	" "														05		7
B-1-25.0		9:15	S	" "														06		7
B-1-30.0		9:22	S	" "														07		7
B-2-1.0		13:30	S	VOA+G														08		7
B-2-5.0		13:42	S	" "														09		7
B-2-10.0		13:48	S	" "														10		7
B-2-15.0		13:55	S	" "														11		7
B-2-20.0		14:00	S	" "														12		7
B-2-25.0		14:12	S	" "														13		7
B-2		14:30	W	VOA+DL														14		9
																		+5	BC	

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1/30/18 14:01		1-30-18 14:01
	1-30-18 14:10		1-30-18 14:10
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 100
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 4.7

Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172265

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: NORTHGATE
Address: 24411 Ridge Route, Dr., Laguna Hills, CA
Phone: 949-716-0050 Fax:
Project Manager: Derrick Willis

Date: 1/30/18 Page: 2 Of 2
Project Name: Holland 3/ Fairfax
Collector: G. Baade Client Project #: 2047.15
Batch #: T180355 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-6-1.0	1/29/18	15:37	S	VOA+GJ													15	16	BC	7
B-6-5.0		15:45	S	VOA+AG													16	17		7
B-6-10.0		15:51	S	" "													17	18		7
B-6-15.0		15:56	S	" "													18	19		7
B-6-20.0		16:01	S	" "													19	20		7
B-6-25.0		16:06	S	" "													20	21		7
B-6-30.0		16:15	S	" "													21	22		7
B-11-1.0		10:00	S	VOA+GJ													22	23		7
B-11-5.0		10:11	S	" "													23	24		7
B-11-10.0		10:15	S	" "													24	25		7
B-11-15.0		10:20	S	" "													25	26		7
B-11-20.0		10:25	S	" "													26	27		7
B-11-25.0		10:30	S	" "													27	28		7
B-11	↓	11:50	W	VOA+PL													28	29	BC	9

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1/30/18 14:01		1-30-18 14:01
	1-30-18 14:10		1-30-18 14:10
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 100
Chain of Custody seals Y/N/NA: (N)
Seals intact? Y/N/NA: (N)
Received good condition/cold: 4.7
Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172249

SunStar Laboratories — Celebrating 20 Years!

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T180355		
Client Name:	Northgate - Laguna Hills	Project:	Holland 3/Fairfax

Delivered by: ☐ **Client** ☒ **SunStar Courier** ☐ **GSO** ☐ **FedEx** ☐ **Other**

If Courier, Received by:	Joey	Date/Time Courier Received:	1-30-18 14:10
Lab Received by:	Brian	Date/Time Lab Received:	1-30-18 14:10

Total number of coolers received: 0

Temperature:	Cooler #1	4.9 °C +/- the CF (- 0.2°C)	=	4.7 °C	corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C)	=	°C	corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C)	=	°C	corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☐ Yes	☒ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☐ **Yes**	☒ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: BC 1-30-18

Comments:

SunStar Laboratories — Celebrating 20 Years!

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____T180355_____

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking/Damaged
  - ☐ Other:
- **CUSTODY SEALS**
  - ☐ None
  - ☐ Not Intact
- **TEMPERATURE (Temp criteria = ≤ 6°C)**
  - ☐ Cooler/Sample Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking ☐ Broken
  - ☐ Extra ☐ Missing
- **LABELS**
  - ☐ Not the same sample ID / info as on the COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
- **SAMPLES**
  - ☐ Samples **NOT RECEIVED** but listed on COC
  - ☐ Samples received but **NOT LISTED** on COC
  - ☒ Logged based on Label Information and not COC
  - ☐ Logged according to Work Plan and not COC
  - ☐ Logged in, **ON HOLD** until further notice
  - ☐ Insufficient quantities for analysis
  - ☐ Improper container used
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Not preserved/Improper preservative used
  - ☐ Without Labels, no information on containers
  - ☐ Other

Comments:

Two trip blanks were not listed on COC, logged in based on label information.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

Rose Fasheh

From: Derrick Willis [derrick.willis@ngem.com]
Sent: Tuesday, January 30, 2018 6:00 PM
To: Rose Fasheh
Cc: Dana Brown
Subject: Holland 3rd/Fairfax
Attachments: 2047.15 - COC_2018.01.30.pdf

Hi Rose,
Here is the COC filled out for 2047.15. Please let me know if you have any questions.
Thanks
Derrick

Derrick S. Willis
Principal

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130, Laguna Hills, CA 92653
phone (949) 716-0050 ext. 101; cell (949) 375-7004; fax (949) 315-3365
http://www.ngem.com

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SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: NORTHGATE
Address: 24411 Ridge Route Dr., Laguna Hills, CA
Phone: 949-716-0050 Fax:
Project Manager: Derrick Willis

Date: 11/30/18 Page: 1 of 2
Project Name: Holland 3 / Fairfax
Collector: G. Baade Client Project #: 2047.15
Batch #: T180355 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-1-1.0	11/29/18	7:55	S	VOA+G	X			X		X		X	X		X	X		01		8
B-1-5.0		8:14	S	VOA+BS														02		7
B-1-10.0		8:14	S	" "	X			X		X		X	X		X			03		7
B-1-15.0		8:24	S	" "														04		7
B-1-20.0		8:29	S	" "	X			X		X		X	X		X			05		7
B-1-25.0		9:15	S	" "														06		7
B-1-30.0		9:22	S	" "														07		7
B-2-1.0		13:30	S	VOA+BG	X			X		X		X	X		X	X		08		8
B-2-5.0		13:42	S	" "														09		7
B-2-10.0		13:48	S	" "	X			X		X		X	X		X			10		7
B-2-15.0		13:55	S	" "														11		7
B-2-20.0		14:00	S	" "	X			X		X		X	X		X			12		7
B-2-25.0		14:12	S	" "														13		7
B-2		14:30	W	VOA+BL	X					X		X	X					14		9

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	11/30/18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 100
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 4.7°
Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172265

SunStar Laboratories

Chain of Custody Record

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: NORTHGATE
Address: 24411 Ridge Route Dr., Laguna Hills, CA
Phone: 949-716-0050 Fax:
Project Manager: Jennifer Willis

Date: 1/30/18 Page: 2 Of 2
Project Name: Holland 3/ Fairfax
Collector: G. Baade Client Project #: 2047.15
Batch #: T180355 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-6-1.0	1/29/18	15:37	S	VOA+G	X			X		X		X	X		X	X		15		7
B-6-5.0		15:45	S	VOA+AS														16		7
B-6-10.0		15:51	S	" "	X			X		X		X	X		X			17		7
B-6-15.0		15:56	S	" "														18		7
B-6-20.0		16:01	S	" "	X			X		X		X	X		X			19		7
B-6-25.0		16:06	S	" "														20		7
B-6-30.0		16:15	S	" "														21		7
B-11-1.0		10:00	S	VOA-G	X			X		X		X	X		X	X		22		7
B-11-5.0		10:11	S	" "														23		7
B-11-10.0		10:15	S	" "	X			X		X		X	X		X			24		7
B-11-15.0		10:20	S	" "														25		7
B-11-20.0		10:25	S	" "	X			X		X		X	X		X			26		7
B-11-25.0		10:30	S	" "														27		7
B-11	↓	11:50	W	VOA+PL	X					X		X						28		9

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1/30/18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 100
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 4.7

Turn around time: Standard

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172249

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180355

Client: **Northgate Environmental Management -- Laguna** **Project Manager:** **Rose Fasheh**
Project: **3rd & Fairfax** **Project Number:** **2047.15**

Report To:
Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 02/07/18 17:00 (5 day TAT)
Received By: Brian Charon Date Received: 01/30/18 16:02
Logged In By: Brian Charon Date Logged In: 01/30/18 16:47

Samples Received at: **4.7°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T180355-01 B-1-1.0 [Soil] Sampled 01/29/18 07:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 07:55	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 07:55	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 07:55	
8081 Pesticides	02/07/18 15:00	5	02/12/18 07:55	
8082 PCB	02/07/18 15:00	5	02/12/18 07:55	
8260 5035	02/07/18 15:00	5	02/12/18 07:55	
8270C	02/07/18 15:00	5	02/12/18 07:55	
T180355-02 B-1- 5.0 [Soil] Sampled 01/29/18 08:14 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-03 B-1- 10.0 [Soil] Sampled 01/29/18 08:19 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 08:19	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 08:19	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 08:19	
8082 PCB	02/07/18 15:00	5	02/12/18 08:19	
8260 5035	02/07/18 15:00	5	02/12/18 08:19	
8270C	02/07/18 15:00	5	02/12/18 08:19	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180355

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180355-04 B-1- 15.0 [Soil] Sampled 01/29/18 08:24 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-05 B-1- 20.0 [Soil] Sampled 01/29/18 08:29 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 08:29	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 08:29	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 08:29	
8082 PCB	02/07/18 15:00	5	02/12/18 08:29	
8260 5035	02/07/18 15:00	5	02/12/18 08:29	
8270C	02/07/18 15:00	5	02/12/18 08:29	
T180355-06 B-1- 25.0 [Soil] Sampled 01/29/18 09:15 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-07 B-1- 30.0 [Soil] Sampled 01/29/18 09:22 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-08 B-2- 1.0 [Soil] Sampled 01/29/18 13:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 13:30	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 13:30	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 13:30	
8081 Pesticides	02/07/18 15:00	5	02/12/18 13:30	
8082 PCB	02/07/18 15:00	5	02/12/18 13:30	
8260 5035	02/07/18 15:00	5	02/12/18 13:30	
8270C	02/07/18 15:00	5	02/12/18 13:30	
T180355-09 B-2- 5.0 [Soil] Sampled 01/29/18 13:42 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180355

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180355-10 B-2- 10.0 [Soil] Sampled 01/29/18 13:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 13:48	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 13:48	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 13:48	
8082 PCB	02/07/18 15:00	5	02/12/18 13:48	
8260 5035	02/07/18 15:00	5	02/12/18 13:48	
8270C	02/07/18 15:00	5	02/12/18 13:48	
T180355-11 B-2- 15.0 [Soil] Sampled 01/29/18 13:55 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-12 B-2- 20.0 [Soil] Sampled 01/29/18 14:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 14:00	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 14:00	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 14:00	
8082 PCB	02/07/18 15:00	5	02/12/18 14:00	
8260 5035	02/07/18 15:00	5	02/12/18 14:00	
8270C	02/07/18 15:00	5	02/12/18 14:00	
T180355-13 B-2- 25.0 [Soil] Sampled 01/29/18 14:12 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-14 B-2 [Water] Sampled 01/29/18 14:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 14:30	
8015 CC (D/MO)	02/07/18 15:00	5	02/05/18 14:30	
8015 m Gas Purge	02/07/18 15:00	5	02/12/18 14:30	
8260	02/07/18 15:00	5	02/12/18 14:30	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180355

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180355-15 B-6- 1.0 [Soil] Sampled 01/29/18 15:37 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 15:37	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 15:37	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 15:37	
8081 Pesticides	02/07/18 15:00	5	02/12/18 15:37	
8082 PCB	02/07/18 15:00	5	02/12/18 15:37	
8260 5035	02/07/18 15:00	5	02/12/18 15:37	
8270C	02/07/18 15:00	5	02/12/18 15:37	
T180355-16 B-6- 5.0 [Soil] Sampled 01/29/18 15:45 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-17 B-6- 10.0 [Soil] Sampled 01/29/18 15:51 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 15:51	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 15:51	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 15:51	
8082 PCB	02/07/18 15:00	5	02/12/18 15:51	
8260 5035	02/07/18 15:00	5	02/12/18 15:51	
8270C	02/07/18 15:00	5	02/12/18 15:51	
T180355-18 B-6- 15.0 [Soil] Sampled 01/29/18 15:56 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-19 B-6- 20.0 [Soil] Sampled 01/29/18 16:01 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 16:01	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 16:01	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 16:01	
8082 PCB	02/07/18 15:00	5	02/12/18 16:01	
8260 5035	02/07/18 15:00	5	02/12/18 16:01	
8270C	02/07/18 15:00	5	02/12/18 16:01	
T180355-20 B-6- 25.0 [Soil] Sampled 01/29/18 16:06 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

WORK ORDER

T180355

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180355-21 B-6- 30.0 [Soil] Sampled 01/29/18 16:15 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-22 B-11- 1.0 [Soil] Sampled 01/29/18 10:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:00	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:00	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:00	
8081 Pesticides	02/07/18 15:00	5	02/12/18 10:00	
8082 PCB	02/07/18 15:00	5	02/12/18 10:00	
8260 5035	02/07/18 15:00	5	02/12/18 10:00	
8270C	02/07/18 15:00	5	02/12/18 10:00	
T180355-23 B-11- 5.0 [Soil] Sampled 01/29/18 10:11 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-24 B-11- 10.0 [Soil] Sampled 01/29/18 10:15 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:15	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:15	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:15	
8082 PCB	02/07/18 15:00	5	02/12/18 10:15	
8260 5035	02/07/18 15:00	5	02/12/18 10:15	
8270C	02/07/18 15:00	5	02/12/18 10:15	
T180355-25 B-11- 15.0 [Soil] Sampled 01/29/18 10:20 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-26 B-11- 20.0 [Soil] Sampled 01/29/18 10:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/07/18 15:00	5	07/28/18 10:25	
8015 CC (D/MO)	02/07/18 15:00	5	02/12/18 10:25	
8015 m 5035-GRO	02/07/18 15:00	5	02/12/18 10:25	
8082 PCB	02/07/18 15:00	5	02/12/18 10:25	
8260 5035	02/07/18 15:00	5	02/12/18 10:25	
8270C	02/07/18 15:00	5	02/12/18 10:25	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180355

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180355-27 B-11- 25.0 [Soil] Sampled 01/29/18 10:30 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-28 B-11 [Water] Sampled 01/29/18 11:50 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/07/18 15:00	5	02/05/18 11:50	
8015 m Gas Purge	02/07/18 15:00	5	02/12/18 11:50	
8260	02/07/18 15:00	5	02/12/18 11:50	
T180355-29 TB-20180129-A [Water] Sampled 01/29/18 10:30 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180355-30 TB-20180129-B [Water] Sampled 01/29/18 10:30 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

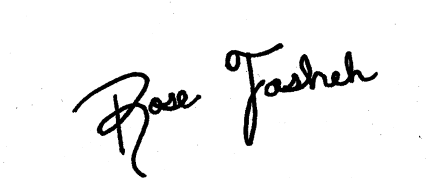
08 February 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/30/18 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-5-1.0	T180352-02	Soil	01/30/18 07:31	01/30/18 16:02
B-5-10.0	T180352-04	Soil	01/30/18 07:55	01/30/18 16:02
B-5-20.0	T180352-06	Soil	01/30/18 08:03	01/30/18 16:02
B-14-1.0	T180352-09	Soil	01/30/18 08:45	01/30/18 16:02
B-14-10.0	T180352-11	Soil	01/30/18 08:59	01/30/18 16:02
B-14-20.0	T180352-13	Soil	01/30/18 09:07	01/30/18 16:02
B-14	T180352-16	Water	01/30/18 09:50	01/30/18 16:02
B-3-1.0	T180352-17	Soil	01/30/18 10:35	01/30/18 16:02
B-3-10.0	T180352-19	Soil	01/30/18 10:48	01/30/18 16:02
B-3-20.0	T180352-21	Soil	01/30/18 10:57	01/30/18 16:02
B-3	T180352-24	Water	01/30/18 12:05	01/30/18 16:02
B-13-1.0	T180352-25	Soil	01/30/18 13:07	01/30/18 16:02
B-13-10.0	T180352-27	Soil	01/30/18 13:18	01/30/18 16:02
B-13-15.0	T180352-28	Soil	01/30/18 13:22	01/30/18 16:02
B-13	T180352-32	Water	01/30/18 14:03	01/30/18 16:02

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

DETECTIONS SUMMARY

Sample ID: B-5-1.0 **Laboratory ID:** T180352-02

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**81**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**280**	10	mg/kg	EPA 8015B	
Barium	**110**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**9.2**	1.0	mg/kg	EPA 6010B	
Nickel	**13**	2.0	mg/kg	EPA 6010B	
Vanadium	**37**	5.0	mg/kg	EPA 6010B	
Zinc	**47**	1.0	mg/kg	EPA 6010B	

Sample ID: B-5-10.0 **Laboratory ID:** T180352-04

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**380**	350	ug/kg	EPA 8015B/5035	
C13-C28 (DRO)	**68**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**65**	10	mg/kg	EPA 8015B	
Barium	**76**	1.0	mg/kg	EPA 6010B	
Chromium	**17**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.4**	2.0	mg/kg	EPA 6010B	
Copper	**8.2**	1.0	mg/kg	EPA 6010B	
Nickel	**17**	2.0	mg/kg	EPA 6010B	
Vanadium	**25**	5.0	mg/kg	EPA 6010B	
Zinc	**36**	1.0	mg/kg	EPA 6010B	
Benzene	**3.6**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B-5-20.0 **Laboratory ID:** T180352-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**35**	1.0	mg/kg	EPA 6010B	
Chromium	**16**	2.0	mg/kg	EPA 6010B	
Cobalt	**7.2**	2.0	mg/kg	EPA 6010B	

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Sample ID: B-5-20.0 **Laboratory ID:** T180352-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Copper	**7.2**	1.0	mg/kg	EPA 6010B	
Nickel	**12**	2.0	mg/kg	EPA 6010B	
Vanadium	**25**	5.0	mg/kg	EPA 6010B	
Zinc	**22**	1.0	mg/kg	EPA 6010B	

Sample ID: B-14-1.0 **Laboratory ID:** T180352-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**49**	10	mg/kg	EPA 8015B	
Barium	**78**	1.0	mg/kg	EPA 6010B	
Chromium	**28**	2.0	mg/kg	EPA 6010B	
Cobalt	**15**	2.0	mg/kg	EPA 6010B	
Copper	**6.1**	1.0	mg/kg	EPA 6010B	
Nickel	**18**	2.0	mg/kg	EPA 6010B	
Vanadium	**50**	5.0	mg/kg	EPA 6010B	
Zinc	**41**	1.0	mg/kg	EPA 6010B	

Sample ID: B-14-10.0 **Laboratory ID:** T180352-11

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**24**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**110**	10	mg/kg	EPA 8015B	
Barium	**39**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**8.3**	2.0	mg/kg	EPA 6010B	
Copper	**7.3**	1.0	mg/kg	EPA 6010B	
Nickel	**18**	2.0	mg/kg	EPA 6010B	
Vanadium	**20**	5.0	mg/kg	EPA 6010B	
Zinc	**19**	1.0	mg/kg	EPA 6010B	

Sample ID: B-14-20.0 **Laboratory ID:** T180352-13

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**33**	1.0	mg/kg	EPA 6010B	

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Sample ID: B-14-20.0 **Laboratory ID:** T180352-13

Analyte	Result	Reporting Limit	Units	Method	Notes
Chromium	**14**	2.0	mg/kg	EPA 6010B	
Cobalt	**7.2**	2.0	mg/kg	EPA 6010B	
Copper	**5.6**	1.0	mg/kg	EPA 6010B	
Nickel	**12**	2.0	mg/kg	EPA 6010B	
Vanadium	**20**	5.0	mg/kg	EPA 6010B	
Zinc	**16**	1.0	mg/kg	EPA 6010B	

Sample ID: B-14 **Laboratory ID:** T180352-16

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**0.71**	0.50	mg/l	EPA 8015B	

Sample ID: B-3-1.0 **Laboratory ID:** T180352-17

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**33**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**180**	10	mg/kg	EPA 8015B	
Barium	**79**	1.0	mg/kg	EPA 6010B	
Chromium	**15**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.6**	2.0	mg/kg	EPA 6010B	
Copper	**8.5**	1.0	mg/kg	EPA 6010B	
Nickel	**9.3**	2.0	mg/kg	EPA 6010B	
Vanadium	**31**	5.0	mg/kg	EPA 6010B	
Zinc	**27**	1.0	mg/kg	EPA 6010B	

Sample ID: B-3-10.0 **Laboratory ID:** T180352-19

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**18**	10	mg/kg	EPA 8015B	
Barium	**60**	1.0	mg/kg	EPA 6010B	
Chromium	**22**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**8.0**	1.0	mg/kg	EPA 6010B	
Nickel	**21**	2.0	mg/kg	EPA 6010B	

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Sample ID: B-3-10.0 **Laboratory ID:** T180352-19

Analyte	Result	Reporting Limit	Units	Method	Notes
Vanadium	**27**	5.0	mg/kg	EPA 6010B	
Zinc	**34**	1.0	mg/kg	EPA 6010B	
Benzene	**2.2**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B-3-20.0 **Laboratory ID:** T180352-21

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**14**	10	mg/kg	EPA 8015B	
Barium	**39**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**8.9**	2.0	mg/kg	EPA 6010B	
Copper	**8.1**	1.0	mg/kg	EPA 6010B	
Nickel	**16**	2.0	mg/kg	EPA 6010B	
Vanadium	**27**	5.0	mg/kg	EPA 6010B	
Zinc	**30**	1.0	mg/kg	EPA 6010B	
Benzene	**7.6**	1.9	ug/kg	EPA 8260B/5035	
Toluene	**2.3**	1.9	ug/kg	EPA 8260B/5035	

Sample ID: B-3 **Laboratory ID:** T180352-24

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**2.0**	0.50	mg/l	EPA 8015B	
Barium	**110**	50	ug/l	EPA 6010b	
Molybdenum	**62**	50	ug/l	EPA 6010b	

Sample ID: B-13-1.0 **Laboratory ID:** T180352-25

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**250**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**890**	10	mg/kg	EPA 8015B	
Barium	**64**	1.0	mg/kg	EPA 6010B	
Chromium	**20**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**6.6**	1.0	mg/kg	EPA 6010B	

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Sample ID: B-13-1.0 **Laboratory ID:** T180352-25

Analyte	Result	Reporting Limit	Units	Method	Notes
Nickel	**13**	2.0	mg/kg	EPA 6010B	
Vanadium	**40**	5.0	mg/kg	EPA 6010B	
Zinc	**32**	1.0	mg/kg	EPA 6010B	

Sample ID: B-13-10.0 **Laboratory ID:** T180352-27

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**22**	10	mg/kg	EPA 8015B	
Barium	**58**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**10**	1.0	mg/kg	EPA 6010B	
Nickel	**20**	2.0	mg/kg	EPA 6010B	
Vanadium	**30**	5.0	mg/kg	EPA 6010B	
Zinc	**32**	1.0	mg/kg	EPA 6010B	
Benzene	**2.4**	2.1	ug/kg	EPA 8260B/5035	

Sample ID: B-13-15.0 **Laboratory ID:** T180352-28

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**15**	10	mg/kg	EPA 8015B	
Barium	**370**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**19**	2.0	mg/kg	EPA 6010B	
Copper	**11**	1.0	mg/kg	EPA 6010B	
Nickel	**28**	2.0	mg/kg	EPA 6010B	
Vanadium	**46**	5.0	mg/kg	EPA 6010B	
Zinc	**34**	1.0	mg/kg	EPA 6010B	
Benzene	**4.4**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B-13 **Laboratory ID:** T180352-32

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**1.2**	0.50	mg/l	EPA 8015B	

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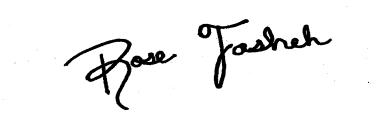

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B-5-1.0

T180352-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	330	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*101 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**81**	10	mg/kg	1	8020522	02/05/18	02/06/18	EPA 8015B	
C29-C40 (MORO)	**280**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.5 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**110**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**9.2**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**13**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**37**	5.0	"	"	"	"	"	"	
Zinc	**47**	1.0	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-5-1.0

T180352-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-5-1.0

T180352-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*62.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*52.4 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-5-1.0

T180352-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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T180352-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180352-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180352-02 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*66.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*75.3 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.6 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.9 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*104 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*96.0 %*	*29.1-130*		"	"	"	"	

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T180352-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	**380**	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*106 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**68**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	**65**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*69.5 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**76**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**17**	2.0	"	"	"	"	"	"	
Cobalt	**9.4**	2.0	"	"	"	"	"	"	
Copper	**8.2**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**17**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**25**	5.0	"	"	"	"	"	"	
Zinc	**36**	1.0	"	"	"	"	"	"	

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T180352-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*56.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*50.5 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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T180352-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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T180352-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**3.6**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.5 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-5-10.0

T180352-04 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-04 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*50.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*59.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*68.4 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*70.3 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*96.9 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*89.1 %*	*29.1-130*		"	"	"	"	

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T180352-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	360	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*69.7 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*90.6 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**35**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**16**	2.0	"	"	"	"	"	"	
Cobalt	**7.2**	2.0	"	"	"	"	"	"	
Copper	**7.2**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**12**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**25**	5.0	"	"	"	"	"	"	
Zinc	**22**	1.0	"	"	"	"	"	"	

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T180352-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*69.0 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*59.9 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	

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T180352-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.8	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-06 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-5-20.0

T180352-06 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*59.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*67.7 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*77.0 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*75.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*98.5 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*100 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-14-1.0

T180352-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	340	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*68.7 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	**49**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*72.8 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**78**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**28**	2.0	"	"	"	"	"	"	
Cobalt	**15**	2.0	"	"	"	"	"	"	
Copper	**6.1**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**18**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**50**	5.0	"	"	"	"	"	"	
Zinc	**41**	1.0	"	"	"	"	"	"	

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B-14-1.0

T180352-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*92.7 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*107 %*	*35-140*		"	"	"	"	

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Rose Fasheh

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T180352-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*74.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*58.4 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	1.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	

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T180352-09 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
Methylene chloride	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	
Styrene	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	

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T180352-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.6	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.6	"	"	"	"	"	"	
Benzene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.3	"	"	"	"	"	"	
o-Xylene	ND	1.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.5 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.9 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-09 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180352-09 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*63.6 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*73.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*75.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*76.3 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*101 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*98.4 %*	*29.1-130*		"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-11 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*70.2 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**24**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	**110**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*89.4 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**39**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**8.3**	2.0	"	"	"	"	"	"	
Copper	**7.3**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**18**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**20**	5.0	"	"	"	"	"	"	
Zinc	**19**	1.0	"	"	"	"	"	"	

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T180352-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*63.0 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*60.2 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180352-11 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
Methylene chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	

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T180352-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	2.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.1 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180352-11 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-11 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*60.0 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*65.4 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*75.8 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*75.2 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*96.7 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*92.9 %*	*29.1-130*		"	"	"	"	

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T180352-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	640	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*65.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*79.2 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**33**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**14**	2.0	"	"	"	"	"	"	
Cobalt	**7.2**	2.0	"	"	"	"	"	"	
Copper	**5.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**12**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**20**	5.0	"	"	"	"	"	"	
Zinc	**16**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-14-20.0

T180352-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*66.1 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*62.1 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-14-20.0

T180352-13 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	

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T180352-13 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	2.0	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.0 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.9 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180352-13 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-13 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*53.8 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*59.7 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*70.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*72.1 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*91.8 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*90.6 %*	*29.1-130*		"	"	"	"	

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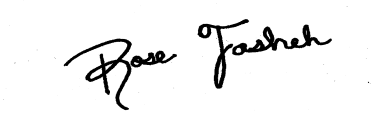

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-16 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*75.7 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**0.71**	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*69.2 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	

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T180352-16 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-16 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*88.8-117*		"	"	"	"	

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-3-1.0

T180352-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*60.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**33**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	**180**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*89.6 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**79**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**15**	2.0	"	"	"	"	"	"	
Cobalt	**9.6**	2.0	"	"	"	"	"	"	
Copper	**8.5**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**9.3**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**31**	5.0	"	"	"	"	"	"	
Zinc	**27**	1.0	"	"	"	"	"	"	

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T180352-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*84.3 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*107 %*	*35-140*		"	"	"	"	

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T180352-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70.1 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53.9 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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T180352-17 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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T180352-17 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.5 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*110 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180352-17 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180352-17 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*57.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*67.7 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*72.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*74.9 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*98.1 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*90.3 %*	*29.1-130*		"	"	"	"	

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B-3-10.0

T180352-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	350	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*65.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**18**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*90.4 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**60**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**8.0**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**21**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**27**	5.0	"	"	"	"	"	"	
Zinc	**34**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-3-10.0

T180352-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*64.8 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*64.2 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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T180352-19 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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T180352-19 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**2.2**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.1 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*114 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180352-19 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-19 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*60.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*67.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*76.6 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*77.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*97.7 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*97.1 %*	*29.1-130*		"	"	"	"	

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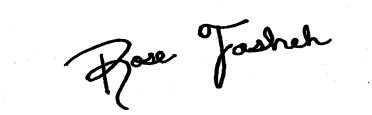

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T180352-21 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	390	ug/kg	1	8020130	02/01/18	02/01/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*62.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**14**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.9 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**39**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**8.9**	2.0	"	"	"	"	"	"	
Copper	**8.1**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**16**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**27**	5.0	"	"	"	"	"	"	
Zinc	**30**	1.0	"	"	"	"	"	"	

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T180352-21 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*76.9 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*68.8 %*	*35-140*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-3-20.0

T180352-21 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-21 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.9	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	**7.6**	1.9	"	"	"	"	"	"	
Toluene	**2.3**	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.7 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180352-21 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-21 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/06/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*58.1 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*65.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*75.6 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*76.6 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*104 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*96.6 %*	*29.1-130*		"	"	"	"	

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T180352-24 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**2.0**	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*75.7 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	50	ug/l	1	8020242	02/02/18	02/06/18	EPA 6010b	
Silver	ND	50	"	"	"	"	"	"	
Arsenic	ND	50	"	"	"	"	"	"	
Barium	**110**	50	"	"	"	"	"	"	
Beryllium	ND	50	"	"	"	"	"	"	
Cadmium	ND	50	"	"	"	"	"	"	
Chromium	ND	50	"	"	"	"	"	"	
Cobalt	ND	50	"	"	"	"	"	"	
Copper	ND	50	"	"	"	"	"	"	
Lead	ND	50	"	"	"	"	"	"	
Molybdenum	**62**	50	"	"	"	"	"	"	
Nickel	ND	50	"	"	"	"	"	"	
Selenium	ND	50	"	"	"	"	"	"	
Thallium	ND	50	"	"	"	"	"	"	
Vanadium	ND	50	"	"	"	"	"	"	
Zinc	ND	50	"	"	"	"	"	"	

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T180352-24 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.50	ug/l	1	8020243	02/02/18	02/06/18	EPA 7470A Water	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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T180352-24 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichloropropane	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-24 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8	*110 %*		*88.8-117*		*8020127*	*02/01/18*	*02/01/18*	*EPA 8260B*	

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T180352-25 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	320	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*49.7 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**250**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	**890**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.0 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**64**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**20**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**6.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**13**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**40**	5.0	"	"	"	"	"	"	
Zinc	**32**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-1.0

T180352-25 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/05/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-1.0

T180352-25 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*63.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53.1 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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T180352-25 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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B-13-1.0

T180352-25 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.7 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.6 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*119 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	1500	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07

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T180352-25 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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T180352-25 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semivolatile Organic Compounds by EPA Method 8270C									
Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020521	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*67.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*77.2 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*82.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*91.1 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*99.8 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*99.4 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-10.0

T180352-27 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	390	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*58.7 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**22**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*78.5 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**58**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**10**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**20**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**30**	5.0	"	"	"	"	"	"	
Zinc	**32**	1.0	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-10.0

T180352-27 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.7 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56.9 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.2	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-27 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
Methylene chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	

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T180352-27 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	2.1	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.1	"	"	"	"	"	"	
Benzene	**2.4**	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.2	"	"	"	"	"	"	
o-Xylene	ND	2.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*121 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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T180352-27 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-27 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*68.8 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*73.8 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*84.1 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.3 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*107 %*	*18.1-105*		"	"	"	"	*S-GC*
Surrogate: Terphenyl-dl4		*105 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-15.0

T180352-28 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	350	ug/kg	1	8020130	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*52.9 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**15**	10	mg/kg	1	8020522	02/05/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.1 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020239	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**370**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**19**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**28**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**46**	5.0	"	"	"	"	"	"	
Zinc	**34**	1.0	"	"	"	"	"	"	

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T180352-28 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020238	02/02/18	02/05/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*66.9 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*60.8 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180352-28 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

B-13-15.0

T180352-28 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8020129	02/01/18	02/02/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**4.4**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.6 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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T180352-28 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020521	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*70.2 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*73.4 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*87.8 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.3 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*104 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*99.3 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-32 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*86.6 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**1.2**	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*76.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

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T180352-32 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	

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T180352-32 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*88.8-117*		"	"	"	"	

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Purgeable Petroleum Hydrocarbons by EPA 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020130 - EPA 5035 GC										
Blank (8020130-BLK1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	*126*		*"*	*100*		*126*	*65-135*			
LCS (8020130-BS1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	1910	400	ug/kg	1980		96.5	75-125			
Surrogate: 4-Bromofluorobenzene	*115*		*"*	*100*		*115*	*65-135*			
LCS Dup (8020130-BSD1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	1750	400	ug/kg	1980		88.1	75-125	8.89	20	
Surrogate: 4-Bromofluorobenzene	*106*		*"*	*100*		*106*	*65-135*			
Batch 8020142 - EPA 5030 GC										
Blank (8020142-BLK1)				Prepared: 02/01/18 Analyzed: 02/03/18						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	*76.8*		*"*	*100*		*76.8*	*65-135*			
LCS (8020142-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
C6-C12 (GRO)	1090	50	ug/l	1000		109	75-125			
Surrogate: 4-Bromofluorobenzene	*115*		*"*	*100*		*115*	*65-135*			
LCS Dup (8020142-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
C6-C12 (GRO)	1020	50	ug/l	1000		102	75-125	7.35	20	
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*65-135*			

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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020233 - EPA 3510C GC										
Blank (8020233-BLK1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: p-Terphenyl	*3.02*		*"*	*4.00*		*75.6*	*65-135*			
LCS (8020233-BS1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	16.0	0.50	mg/l	20.0		80.2	75-125			
Surrogate: p-Terphenyl	*2.69*		*"*	*4.00*		*67.3*	*65-135*			
LCS Dup (8020233-BSD1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	16.8	0.50	mg/l	20.0		84.2	75-125	4.92	20	
Surrogate: p-Terphenyl	*2.62*		*"*	*4.00*		*65.6*	*65-135*			
Batch 8020522 - EPA 3550B GC										
Blank (8020522-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*68.7*		*"*	*100*		*68.7*	*65-135*			
LCS (8020522-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
C13-C28 (DRO)	460	10	mg/kg	500		92.1	75-125			
Surrogate: p-Terphenyl	*76.9*		*"*	*100*		*76.9*	*65-135*			
LCS Dup (8020522-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
C13-C28 (DRO)	500	10	mg/kg	500		101	75-125	9.03	20	
Surrogate: p-Terphenyl	*87.3*		*"*	*100*		*87.3*	*65-135*			

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020239 - EPA 3050B										
Blank (8020239-BLK1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
LCS (8020239-BS1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	103	5.0	mg/kg	100		103	75-125			
Barium	106	1.0	"	100		106	75-125			
Cadmium	105	2.0	"	100		105	75-125			
Chromium	105	2.0	"	100		105	75-125			
Lead	112	3.0	"	100		112	75-125			
Matrix Spike (8020239-MS1)	**Source: T180352-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	87.1	5.0	mg/kg	97.1	ND	89.7	75-125			
Barium	221	1.0	"	97.1	107	117	75-125			
Cadmium	94.4	2.0	"	97.1	0.889	96.3	75-125			
Chromium	116	2.0	"	97.1	19.3	99.9	75-125			
Lead	110	3.0	"	97.1	ND	114	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020239 - EPA 3050B										
Matrix Spike Dup (8020239-MSD1)	**Source: T180352-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	84.3	5.0	mg/kg	96.2	ND	87.7	75-125	3.30	20	
Barium	159	1.0	"	96.2	107	54.0	75-125	32.7	20	QR-04
Cadmium	86.5	2.0	"	96.2	0.889	89.0	75-125	8.80	20	
Chromium	99.2	2.0	"	96.2	19.3	83.0	75-125	15.9	20	
Lead	102	3.0	"	96.2	ND	106	75-125	8.15	20	
Batch 8020242 - EPA 3010A										
Blank (8020242-BLK1)				Prepared: 02/02/18 Analyzed: 02/06/18						
Antimony	ND	50	ug/l							
Silver	ND	50	"							
Arsenic	ND	50	"							
Barium	ND	50	"							
Beryllium	ND	50	"							
Cadmium	ND	50	"							
Chromium	ND	50	"							
Cobalt	ND	50	"							
Copper	ND	50	"							
Lead	ND	50	"							
Molybdenum	ND	50	"							
Nickel	ND	50	"							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	"							
Zinc	ND	50	"							
LCS (8020242-BS1)				Prepared: 02/02/18 Analyzed: 02/06/18						
Arsenic	475	50	ug/l	500		95.0	75-125			
Barium	485	50	"	500		97.1	75-125			
Cadmium	481	50	"	500		96.2	75-125			
Chromium	485	50	"	500		97.1	75-125			
Lead	509	50	"	500		102	75-125			

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Metals by EPA 6010B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020242 - EPA 3010A										
Matrix Spike (8020242-MS1)	**Source: T180352-24**			Prepared: 02/02/18 Analyzed: 02/06/18						
Arsenic	493	50	ug/l	500	ND	98.5	75-125			
Barium	578	50	"	500	114	92.8	75-125			
Cadmium	462	50	"	500	ND	92.4	75-125			
Chromium	470	50	"	500	ND	94.0	75-125			
Lead	491	50	"	500	ND	98.3	75-125			
Matrix Spike Dup (8020242-MSD1)	**Source: T180352-24**			Prepared: 02/02/18 Analyzed: 02/06/18						
Arsenic	487	50	ug/l	500	ND	97.4	75-125	1.19	20	
Barium	572	50	"	500	114	91.7	75-125	0.975	20	
Cadmium	454	50	"	500	ND	90.8	75-125	1.69	20	
Chromium	467	50	"	500	ND	93.4	75-125	0.641	20	
Lead	484	50	"	500	ND	96.7	75-125	1.57	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020238 - EPA 7471A Soil										
Blank (8020238-BLK1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	ND	0.10	mg/kg							
LCS (8020238-BS1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.341	0.10	mg/kg	0.397		86.0	80-120			
Matrix Spike (8020238-MS1)	**Source: T180352-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.382	0.10	mg/kg	0.403	0.0292	87.4	75-125			
Matrix Spike Dup (8020238-MSD1)	**Source: T180352-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.371	0.10	mg/kg	0.403	0.0292	84.7	75-125	2.88	20	
Batch 8020243 - EPA 7470A Water										
Blank (8020243-BLK1)				Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	ND	0.50	ug/l							
LCS (8020243-BS1)				Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.59	0.50	ug/l	5.00		91.8	80-120			
Matrix Spike (8020243-MS1)	**Source: T180398-01**			Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.37	0.50	ug/l	5.00	ND	87.3	75-125			
Matrix Spike Dup (8020243-MSD1)	**Source: T180398-01**			Prepared: 02/02/18 Analyzed: 02/06/18						
Mercury	4.36	0.50	ug/l	5.00	ND	87.3	75-125	0.0996	20	

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
Blank (8020134-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4´-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4´-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4´-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	*8.92*		*"*	*10.0*		*89.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.62*		*"*	*10.0*		*86.2*	*35-140*			
LCS (8020134-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0		85.5	40-120			
Heptachlor	34.1	5.0	"	40.0		85.2	40-120			
Aldrin	32.0	5.0	"	40.0		80.0	40-120			
Dieldrin	32.6	5.0	"	40.0		81.5	40-120			
Endrin	32.7	5.0	"	40.0		81.9	40-120			
4,4´-DDT	30.7	5.0	"	40.0		76.8	33-147			
Surrogate: Tetrachloro-meta-xylene	*8.47*		*"*	*10.0*		*84.7*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.36*		*"*	*10.0*		*83.6*	*35-140*			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
LCS Dup (8020134-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4´-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	*8.06*		*"*	*10.0*		*80.6*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.56*		*"*	*10.0*		*85.6*	*35-140*			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020133 - EPA 3550 ECD/GCMS										
Blank (8020133-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	*7.49*		"	*10.0*		*74.9*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.46*		"	*10.0*		*74.6*	*35-140*			
LCS (8020133-BS1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	63.7	10	ug/kg	100		63.7	40-130			
PCB-1260	65.7	10	"	100		65.7	40-130			
Surrogate: Tetrachloro-meta-xylene	*7.72*		"	*10.0*		*77.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.73*		"	*10.0*		*77.3*	*35-140*			
LCS Dup (8020133-BSD1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	69.0	10	ug/kg	100		69.0	40-130	7.99	30	
PCB-1260	61.7	10	"	100		61.7	40-130	6.28	30	
Surrogate: Tetrachloro-meta-xylene	*7.48*		"	*10.0*		*74.8*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.15*		"	*10.0*		*71.5*	*35-140*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
Blank (8020127-BLK1)				Prepared & Analyzed: 02/01/18						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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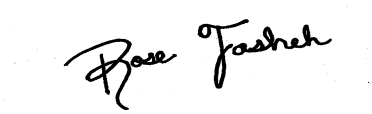

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
Blank (8020127-BLK1)				Prepared & Analyzed: 02/01/18						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	*19.3*		*"*	*20.0*		*96.4*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.2*		*"*	*20.0*		*106*	*81-136*			
Surrogate: Toluene-d8	*21.8*		*"*	*20.0*		*109*	*88.8-117*			

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
LCS (8020127-BS1)				Prepared & Analyzed: 02/01/18						
Chlorobenzene	21.5	1.0	ug/l	20.0		108	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	20.0	1.0	"	20.0		100	75-125			
Benzene	21.8	0.50	"	20.0		109	75-125			
Toluene	21.8	0.50	"	20.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	*22.2*		*"*	*20.0*		*111*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.2*		*"*	*20.0*		*106*	*81-136*			
Surrogate: Toluene-d8	*21.6*		*"*	*20.0*		*108*	*88.8-117*			
LCS Dup (8020127-BSD1)				Prepared & Analyzed: 02/01/18						
Chlorobenzene	21.2	1.0	ug/l	20.0		106	75-125	1.83	20	
1,1-Dichloroethene	21.3	1.0	"	20.0		106	75-125	0.235	20	
Trichloroethene	20.2	1.0	"	20.0		101	75-125	1.24	20	
Benzene	22.3	0.50	"	20.0		111	75-125	2.13	20	
Toluene	21.8	0.50	"	20.0		109	75-125	0.0458	20	
Surrogate: 4-Bromofluorobenzene	*21.8*		*"*	*20.0*		*109*	*83.5-119*			
Surrogate: Dibromofluoromethane	*20.9*		*"*	*20.0*		*105*	*81-136*			
Surrogate: Toluene-d8	*21.3*		*"*	*20.0*		*106*	*88.8-117*			
Batch 8020129 - EPA 5035 GCMS										
Blank (8020129-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020129 - EPA 5035 GCMS										
Blank (8020129-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
4-Chlorotoluene	ND	2.0	ug/kg							
Dibromochloromethane	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
Dibromomethane	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
Dichlorodifluoromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
1,3-Dichloropropane	ND	2.0	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020129 - EPA 5035 GCMS										
Blank (8020129-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
1,2,3-Trichloropropane	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	*40.3*		"	*39.6*		*102*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.9*		"	*39.6*		*98.1*	*81.2-123*			
Surrogate: Dibromofluoromethane	*44.2*		"	*39.6*		*112*	*95.7-135*			
LCS (8020129-BS1)				Prepared: 02/01/18 Analyzed: 02/03/18						
Chlorobenzene	37.5	2.0	ug/kg	39.8		94.2	75-125			
1,1-Dichloroethene	48.2	2.0	"	39.8		121	75-125			
Trichloroethene	37.0	2.0	"	39.8		92.7	75-125			
Benzene	41.0	2.0	"	39.8		103	75-125			
Toluene	37.1	2.0	"	39.8		93.0	75-125			
Surrogate: Toluene-d8	*37.8*		"	*39.8*		*94.9*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.9*		"	*39.8*		*97.5*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.4*		"	*39.8*		*119*	*95.7-135*			
LCS Dup (8020129-BSD1)				Prepared: 02/01/18 Analyzed: 02/03/18						
Chlorobenzene	39.7	2.0	ug/kg	39.4		101	75-125	5.63	20	
1,1-Dichloroethene	47.7	2.0	"	39.4		121	75-125	1.02	20	
Trichloroethene	37.7	2.0	"	39.4		95.8	75-125	2.05	20	
Benzene	42.3	2.0	"	39.4		107	75-125	3.14	20	
Toluene	38.1	2.0	"	39.4		96.7	75-125	2.71	20	
Surrogate: Toluene-d8	*36.4*		"	*39.4*		*92.5*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*39.8*		"	*39.4*		*101*	*81.2-123*			
Surrogate: Dibromofluoromethane	*46.4*		"	*39.4*		*118*	*95.7-135*			

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020521 - EPA 3550 ECD/GCMS										
Blank (8020521-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Carbazole	ND	300	ug/kg							
Phenol	ND	1000	"							
Aniline	ND	300	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020521 - EPA 3550 ECD/GCMS										
Blank (8020521-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
Pyridine	ND	300	"							
2,4,6-Trichlorophenol	ND	1000	"							

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020521 - EPA 3550 ECD/GCMS										
Blank (8020521-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Surrogate: 2-Fluorophenol	*1890*		*ug/kg*	*3370*		*56.0*	*15-121*			
Surrogate: Phenol-d6	*1990*		*"*	*3370*		*59.1*	*24-113*			
Surrogate: Nitrobenzene-d5	*2250*		*"*	*3370*		*66.6*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2370*		*"*	*3370*		*70.4*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2590*		*"*	*3370*		*76.9*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3150*		*"*	*3370*		*93.5*	*29.1-130*			
LCS (8020521-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Phenol	1840	1000	ug/kg	3320		55.4	34-114			
2-Chlorophenol	1990	1000	"	3320		59.8	34-114			
1,4-Dichlorobenzene	1900	300	"	3320		57.0	34-114			
N-Nitrosodi-n-propylamine	2350	300	"	3320		70.7	30-110			
1,2,4-Trichlorobenzene	2020	300	"	3320		60.6	39-119			
4-Chloro-3-methylphenol	2490	1000	"	3320		75.0	50-130			
Acenaphthene	2170	300	"	3320		65.3	34-114			
Pentachlorophenol	3020	1000	"	3320		90.9	50-130			
Pyrene	1860	300	"	3320		55.9	30-110			
Surrogate: 2-Fluorophenol	*1870*		*"*	*3320*		*56.2*	*15-121*			
Surrogate: Phenol-d6	*2040*		*"*	*3320*		*61.3*	*24-113*			
Surrogate: Nitrobenzene-d5	*2220*		*"*	*3320*		*66.7*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2460*		*"*	*3320*		*74.0*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2780*		*"*	*3320*		*83.7*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3260*		*"*	*3320*		*98.2*	*29.1-130*			
LCS Dup (8020521-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Phenol	1920	1000	ug/kg	3350		57.3	34-114	4.06	42	
2-Chlorophenol	2060	1000	"	3350		61.6	34-114	3.61	40	
1,4-Dichlorobenzene	1990	300	"	3350		59.5	34-114	4.94	28	
N-Nitrosodi-n-propylamine	2430	300	"	3350		72.6	30-110	3.32	38	
1,2,4-Trichlorobenzene	2160	300	"	3350		64.6	39-119	7.05	28	
4-Chloro-3-methylphenol	2630	1000	"	3350		78.5	50-130	5.24	42	
Acenaphthene	2290	300	"	3350		68.4	34-114	5.24	31	
Pentachlorophenol	2980	1000	"	3350		88.9	50-130	1.49	50	
Pyrene	1930	300	"	3350		57.8	30-110	3.87	31	
Surrogate: 2-Fluorophenol	*1910*		*"*	*3350*		*57.2*	*15-121*			
Surrogate: Phenol-d6	*2080*		*"*	*3350*		*62.2*	*24-113*			

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020521 - EPA 3550 ECD/GCMS										
LCS Dup (8020521-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Surrogate: Nitrobenzene-d5	*2270*		*ug/kg*	*3350*		*67.9*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2560*		*"*	*3350*		*76.5*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2770*		*"*	*3350*		*82.9*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3410*		*"*	*3350*		*102*	*29.1-130*			

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 18:10

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-03	The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
QR-04	The pecent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Rose Fasheh

Rose Fasheh, Project Manager

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Chain of Custody Record

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Client: Northgate Environmental
Address: 24411 Ridge Route #130 Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 1 Of 2
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: 1180352 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-A	01/30/2018	07:10	AQ	V	H													01		2
B-5-1.0	1-30-18	07:31	SO	V+GJ														02		7
B-5-5.0		07:50		V+AC														03		7
B-5-10.0		07:55																04		7
B-5-15.0		07:58																05		7
B-5-20.0		08:03																06		7
B-5-25.0		08:10																07		7
B-5-30.0		08:23																08		7
B-14-1.0		08:45		V+GJ														09		7
B-14-5.0		08:52		V+AC														10		7
B-14-10.0		08:59		V+AC														11		7
B-14-15.0		09:03																12		7
B-14-20.0		09:07																13		7
B-14-25.0		09:09																14		7
B-14-30.0		09:19																15		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1-30-18 14:10		1-30-18 14:10
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 100
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 4.7

Turn around time:

Notes
V = 40ml VOA glass
GJ = 802 Glass Jar
AC = Acetate Core
H = Hold for instructions
AQ = Aqueous SO = Soil
A = Analyze

COC 172264

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 2 Of 2
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: T180352 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
B-14	1-30-2018	09:50	AQ	V+PE														16		9
B-3-1.0		10:35	SO	V+GJ														17		7
B-3-5.0		10:44		V+AC														18		7
B-3-10.0		10:48																19		7
B-3-15.0		10:52																20		7
B-3-20.0		10:57																21		7
B-3-25.0		11:00																22		7
B-3-30.0		11:12	↓	↓														23		7
B-3		12:05	AQ	V+PE														24		9
B-13-1.0		13:07	SO	V+GJ														25		7
B-13-5.0		13:14		V+AC														26		7
B-13-10.0		13:18																27		7
B-13-15.0		13:22																28		7
B-13-20.0		13:27																29		7
B-13-25.0	↓	13:31	↓	↓														30		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1-30-18 14:10		1-30-18 14:10
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 109
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 4.7
Turn around time:

Notes
V = 40 ml glass VOA
GJ = 8oz glass Jar
AC = Acetate Core
H = Hold for instructions
AQ = Aqueous SO = Soil
A = Analyze

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172251

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130 Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 3 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: 7180352 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-B	1-30-2018	12:10	AQ	V	H													31		2
~~B-13-30.0~~			~~SO~~	~~V+GC~~																
RB B-13	1-30-18	14:03	AQ	V+PE														32		9

DRS 1-30-18

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1-30-2018 14:15		1-30-18 14:15
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 11
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 4.7

Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172263

SunStar Laboratories — Celebrating 20 Years!

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180352

Client Name: Northgate Envi. Project: 3rd & Fairfax

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Joey Date/Time Courier Received: 1.30.18 / 14:10

Lab Received by: Brian Date/Time Lab Received: 1.30.18 / 16:02

Total number of coolers received: 2

Temperature: Cooler #1 4.9	°C +/- the CF (- 0.2°C) = 4.7	°C corrected temperature	
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature	
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature	
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**	
If NO:			
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: BL 1.30.18

Comments:

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130 Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Wills

Date: 1-30-2018 Page: 1 Of 2
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: 1180252 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-A	01/30/2018	07:10	AQ	V	H													01		2
B-5-1.0	1-30-18	07:31	SO	V+GJ	X			X		X		X	X	X	X	X		02		7
B-5-5.0		07:50		V+AC														03		7
B-5-10.0		07:55			X			X		X		X	X	X	X			04		7
B-5-15.0		07:58																05		7
B-5-20.0		08:03			X			X		X		X	X	X	X			06		7
B-5-25.0		08:10																07		7
B-5-30.0		08:23																08		7
B-14-1.0		08:45		V+GJ	X			X		X		X	X	X	X	X		09		7
B-14-5.0		08:52		V+AC														10		7
B-14-10.0		08:59		V+AC	X			X		X		X	X	X	X			11		7
B-14-15.0		09:03																12		7
B-14-20.0		09:07			X			X		X		X	X	X	X			13		7
B-14-25.0		09:09																14		2
B-14-30.0		09:19																15		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	1-30-18 14:10		1-30-18 14:10
	1-30-18 16:02		1/30/18 16:02

Total # of containers: 100
Chain of Custody seals Y/N/NA: (NA)
Seals intact? Y/N/NA: (NA)
Received good condition/cold: 4.7

Turn around time: _____

Notes
V = 40ml VOA glass
GJ = 8oz Glass Jar
AC = Acetate Core
H = Hold for instructions
AQ = Aqueous SO = Soil
A = Analyze

COC 172264

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

SunStar Laboratories

Chain of Custody Record

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 2 Of 2
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-14	1-30-2018	09:50	AQ	V+PE	X					X		X								9
B-3-1.0		10:35	SO	V+GJ	X			X		X		X	X		X	X				7
B-3-5.0		10:44		V+AC																7
B-3-10.0		10:48			X			X		X		X	X		X					7
B-3-15.0		10:52																		7
B-3-20.0		10:57			X			X		X		X	X		X					7
B-3-25.0		11:00																		7
B-3-30.0		11:12																		7
B-3		12:05	AQ	V+PE	X					X		X	X							9
B-13-1.0		13:07	SO	V+GJ	X			X		X		X	X		X	X				7
B-13-5.0		13:14		V+AC																7
B-13-10.0		13:18			X			X		X		X	X		X					7
B-13-15.0		13:22			X			X		X		X	X		X					7
B-13-20.0		13:27																		7
B-13-25.0		13:31																		7

	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	[signature]	1-30-18		
	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 109
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold:
Turn around time:

Notes:
V = 40 ml glass VOA
GJ = 8oz glass Jar
AC = Acetate Core
H = Hold for instructions
AQ = Aqueous SO = Soil
A = Analyze

Sample disposal instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172251

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130 Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 3 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-B	1-30-2018	12:10	AQ	V	H															2
~~B-13 30.0~~ DRG			SO	V+GC																9
B-13	1-30-18	14:03	AQ	V+PE	X					X		X								

DRG 1-30-18

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1-30-2018 14:15		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 11
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold:
Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172263

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180352

Client:	**Northgate Environmental Management -- Laguna**	**Project Manager:**	**Rose Fasheh**
Project:	**3rd & Fairfax**	**Project Number:**	**2047.15**

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due:	02/08/18 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	01/30/18 16:02
Logged In By:	Sunny Lounethone	Date Logged In:	01/30/18 16:25

Samples Received at: **4.7°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Comments
T180352-01 TB-2018.01.30-A [Water] Sampled 01/30/18 07:10 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-02 B-5-1.0 [Soil] Sampled 01/30/18 07:31 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 07:31	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 07:31	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 07:31	
8081 Pesticides	02/08/18 15:00	5	02/13/18 07:31	
8082 PCB	02/08/18 15:00	5	02/13/18 07:31	
8260 5035	02/08/18 15:00	5	02/13/18 07:31	
8270C	02/08/18 15:00	5	02/13/18 07:31	
T180352-03 B-5-5.0 [Soil] Sampled 01/30/18 07:50 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180352

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180352-04 B-5-10.0 [Soil] Sampled 01/30/18 07:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 07:55	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 07:55	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 07:55	
8082 PCB	02/08/18 15:00	5	02/13/18 07:55	
8260 5035	02/08/18 15:00	5	02/13/18 07:55	
8270C	02/08/18 15:00	5	02/13/18 07:55	
T180352-05 B-5-15.0 [Soil] Sampled 01/30/18 07:58 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-06 B-5-20.0 [Soil] Sampled 01/30/18 08:03 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:03	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:03	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:03	
8082 PCB	02/08/18 15:00	5	02/13/18 08:03	
8260 5035	02/08/18 15:00	5	02/13/18 08:03	
8270C	02/08/18 15:00	5	02/13/18 08:03	
T180352-07 B-5-25.0 [Soil] Sampled 01/30/18 08:10 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-08 B-5-30.0 [Soil] Sampled 01/30/18 08:23 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-09 B-14-1.0 [Soil] Sampled 01/30/18 08:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:45	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:45	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:45	
8081 Pesticides	02/08/18 15:00	5	02/13/18 08:45	
8082 PCB	02/08/18 15:00	5	02/13/18 08:45	
8260 5035	02/08/18 15:00	5	02/13/18 08:45	
8270C	02/08/18 15:00	5	02/13/18 08:45	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180352

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180352-10 B-14-5.0 [Soil] Sampled 01/30/18 08:52 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-11 B-14-10.0 [Soil] Sampled 01/30/18 08:59 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 08:59	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 08:59	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 08:59	
8082 PCB	02/08/18 15:00	5	02/13/18 08:59	
8260 5035	02/08/18 15:00	5	02/13/18 08:59	
8270C	02/08/18 15:00	5	02/13/18 08:59	
T180352-12 B-14-15.0 [Soil] Sampled 01/30/18 09:03 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-13 B-14-20.0 [Soil] Sampled 01/30/18 09:07 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 09:07	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 09:07	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 09:07	
8082 PCB	02/08/18 15:00	5	02/13/18 09:07	
8260 5035	02/08/18 15:00	5	02/13/18 09:07	
8270C	02/08/18 15:00	5	02/13/18 09:07	
T180352-14 B-14-25.0 [Soil] Sampled 01/30/18 09:09 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-15 B-14-30.0 [Soil] Sampled 01/30/18 09:19 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-16 B-14 [Water] Sampled 01/30/18 09:50 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 09:50	
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 09:50	
8260	02/08/18 15:00	5	02/13/18 09:50	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180352

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180352-17 B-3-1.0 [Soil] Sampled 01/30/18 10:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:35	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:35	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:35	
8081 Pesticides	02/08/18 15:00	5	02/13/18 10:35	
8082 PCB	02/08/18 15:00	5	02/13/18 10:35	
8260 5035	02/08/18 15:00	5	02/13/18 10:35	
8270C	02/08/18 15:00	5	02/13/18 10:35	
T180352-18 B-3-5.0 [Soil] Sampled 01/30/18 10:44 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-19 B-3-10.0 [Soil] Sampled 01/30/18 10:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:48	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:48	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:48	
8082 PCB	02/08/18 15:00	5	02/13/18 10:48	
8260 5035	02/08/18 15:00	5	02/13/18 10:48	
8270C	02/08/18 15:00	5	02/13/18 10:48	
T180352-20 B-3-15.0 [Soil] Sampled 01/30/18 10:52 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-21 B-3-20.0 [Soil] Sampled 01/30/18 10:57 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 10:57	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 10:57	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 10:57	
8082 PCB	02/08/18 15:00	5	02/13/18 10:57	
8260 5035	02/08/18 15:00	5	02/13/18 10:57	
8270C	02/08/18 15:00	5	02/13/18 10:57	
T180352-22 B-3-25.0 [Soil] Sampled 01/30/18 11:00 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180352

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180352-23 B-3-30.0 [Soil] Sampled 01/30/18 11:12 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-24 B-3 [Water] Sampled 01/30/18 12:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 12:05	
8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 12:05	
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 12:05	
8260	02/08/18 15:00	5	02/13/18 12:05	
T180352-25 B-13-1.0 [Soil] Sampled 01/30/18 13:07 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:07	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:07	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:07	
8081 Pesticides	02/08/18 15:00	5	02/13/18 13:07	
8082 PCB	02/08/18 15:00	5	02/13/18 13:07	
8260 5035	02/08/18 15:00	5	02/13/18 13:07	
8270C	02/08/18 15:00	5	02/13/18 13:07	
T180352-26 B-13-5.0 [Soil] Sampled 01/30/18 13:14 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-27 B-13-10.0 [Soil] Sampled 01/30/18 13:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:18	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:18	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:18	
8082 PCB	02/08/18 15:00	5	02/13/18 13:18	
8260 5035	02/08/18 15:00	5	02/13/18 13:18	
8270C	02/08/18 15:00	5	02/13/18 13:18	

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WORK ORDER

T180352

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180352-28 B-13-15.0 [Soil] Sampled 01/30/18 13:22 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 13:22	
8015 CC (D/MO)	02/08/18 15:00	5	02/13/18 13:22	
8015 m 5035-GRO	02/08/18 15:00	5	02/13/18 13:22	
8082 PCB	02/08/18 15:00	5	02/13/18 13:22	
8260 5035	02/08/18 15:00	5	02/13/18 13:22	
8270C	02/08/18 15:00	5	02/13/18 13:22	
T180352-29 B-13-20.0 [Soil] Sampled 01/30/18 13:27 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-30 B-13-25.0 [Soil] Sampled 01/30/18 13:31 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-31 TB-2018.01.30-B [Water] Sampled 01/30/18 12:10 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180352-32 B-13 [Water] Sampled 01/30/18 14:03 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/06/18 14:03	
8015 m Gas Purge	02/08/18 15:00	5	02/13/18 14:03	
8260	02/08/18 15:00	5	02/13/18 14:03	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By Date

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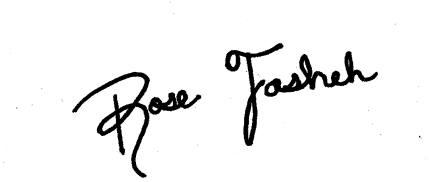
08 February 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/31/18 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rose Fasheh
Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B- 8-1.0	T180381-02	Soil	01/31/18 07:25	01/31/18 16:25
B- 8-10.0	T180381-04	Soil	01/31/18 07:33	01/31/18 16:25
B- 8-15.0	T180381-05	Soil	01/31/18 07:39	01/31/18 16:25
B- 8-20.0	T180381-06	Soil	01/31/18 07:44	01/31/18 16:25
B- 12-1.0	T180381-09	Soil	01/31/18 08:10	01/31/18 16:25
B- 12-10.0	T180381-11	Soil	01/31/18 08:20	01/31/18 16:25
B- 12-20.0	T180381-13	Soil	01/31/18 08:28	01/31/18 16:25
B- 4-1.0	T180381-16	Soil	01/31/18 09:40	01/31/18 16:25
B- 4-10.0	T180381-18	Soil	01/31/18 09:50	01/31/18 16:25
B- 4-15.0	T180381-19	Soil	01/31/18 09:55	01/31/18 16:25
B- 4-20.0	T180381-20	Soil	01/31/18 10:00	01/31/18 16:25
B-4	T180381-23	Water	01/31/18 10:25	01/31/18 16:25
B- 15-1.0	T180381-24	Soil	01/31/18 10:45	01/31/18 16:25
B- 15-10.0	T180381-26	Soil	01/31/18 10:52	01/31/18 16:25
B- 15-20.0	T180381-28	Soil	01/31/18 11:00	01/31/18 16:25
B- 10-1.0	T180381-32	Soil	01/31/18 13:12	01/31/18 16:25
B- 10-10.0	T180381-34	Soil	01/31/18 13:18	01/31/18 16:25
B- 10-20.0	T180381-36	Soil	01/31/18 13:24	01/31/18 16:25

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Rose Fasheh

Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

DETECTIONS SUMMARY

Sample ID: B- 8-1.0 **Laboratory ID:** T180381-02

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**35**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**120**	10	mg/kg	EPA 8015B	
Barium	**92**	1.0	mg/kg	EPA 6010B	
Chromium	**20**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.5**	2.0	mg/kg	EPA 6010B	
Copper	**8.5**	1.0	mg/kg	EPA 6010B	
Nickel	**14**	2.0	mg/kg	EPA 6010B	
Vanadium	**33**	5.0	mg/kg	EPA 6010B	
Zinc	**33**	1.0	mg/kg	EPA 6010B	

Sample ID: B- 8-10.0 **Laboratory ID:** T180381-04

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**21**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**180**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**150**	10	mg/kg	EPA 8015B	
Barium	**53**	1.0	mg/kg	EPA 6010B	
Chromium	**9.5**	2.0	mg/kg	EPA 6010B	
Cobalt	**6.4**	2.0	mg/kg	EPA 6010B	
Copper	**6.0**	1.0	mg/kg	EPA 6010B	
Nickel	**7.8**	2.0	mg/kg	EPA 6010B	
Vanadium	**21**	5.0	mg/kg	EPA 6010B	
Zinc	**20**	1.0	mg/kg	EPA 6010B	
sec-Butylbenzene	**2.0**	1.8	ug/kg	EPA 8260B/5035	

Sample ID: B- 8-15.0 **Laboratory ID:** T180381-05

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**46**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**48**	10	mg/kg	EPA 8015B	
sec-Butylbenzene	**5.8**	1.8	ug/kg	EPA 8260B/5035	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Sample ID: B- 8-20.0 **Laboratory ID:** T180381-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**140**	1.0	mg/kg	EPA 6010B	
Chromium	**30**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**15**	1.0	mg/kg	EPA 6010B	
Nickel	**21**	2.0	mg/kg	EPA 6010B	
Vanadium	**34**	5.0	mg/kg	EPA 6010B	
Zinc	**49**	1.0	mg/kg	EPA 6010B	
Benzene	**3.2**	1.8	ug/kg	EPA 8260B/5035	

Sample ID: B- 12-1.0 **Laboratory ID:** T180381-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**23**	10	mg/kg	EPA 8015B	
C13-C28 (DRO)	**260**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**950**	10	mg/kg	EPA 8015B	
Barium	**91**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.6**	2.0	mg/kg	EPA 6010B	
Copper	**11**	1.0	mg/kg	EPA 6010B	
Nickel	**14**	2.0	mg/kg	EPA 6010B	
Vanadium	**33**	5.0	mg/kg	EPA 6010B	
Zinc	**34**	1.0	mg/kg	EPA 6010B	

Sample ID: B- 12-10.0 **Laboratory ID:** T180381-11

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**46**	10	mg/kg	EPA 8015B	
Barium	**51**	1.0	mg/kg	EPA 6010B	
Chromium	**27**	2.0	mg/kg	EPA 6010B	
Cobalt	**4.8**	2.0	mg/kg	EPA 6010B	
Copper	**4.6**	1.0	mg/kg	EPA 6010B	
Nickel	**9.8**	2.0	mg/kg	EPA 6010B	
Vanadium	**22**	5.0	mg/kg	EPA 6010B	
Zinc	**20**	1.0	mg/kg	EPA 6010B	

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Sample ID: B- 12-20.0 **Laboratory ID:** T180381-13

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**81**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**14**	2.0	mg/kg	EPA 6010B	
Copper	**13**	1.0	mg/kg	EPA 6010B	
Nickel	**15**	2.0	mg/kg	EPA 6010B	
Vanadium	**23**	5.0	mg/kg	EPA 6010B	
Zinc	**30**	1.0	mg/kg	EPA 6010B	

Sample ID: B- 4-1.0 **Laboratory ID:** T180381-16

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**210**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1300**	10	mg/kg	EPA 8015B	
Barium	**84**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**10**	1.0	mg/kg	EPA 6010B	
Nickel	**13**	2.0	mg/kg	EPA 6010B	
Vanadium	**36**	5.0	mg/kg	EPA 6010B	
Zinc	**46**	1.0	mg/kg	EPA 6010B	

Sample ID: B- 4-10.0 **Laboratory ID:** T180381-18

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**39**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**9.0**	2.0	mg/kg	EPA 6010B	
Copper	**7.3**	1.0	mg/kg	EPA 6010B	
Nickel	**15**	2.0	mg/kg	EPA 6010B	
Vanadium	**27**	5.0	mg/kg	EPA 6010B	
Zinc	**24**	1.0	mg/kg	EPA 6010B	
Benzene	**3.2**	1.8	ug/kg	EPA 8260B/5035	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Sample ID: B- 4-15.0 **Laboratory ID:** T180381-19

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**1100**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1000**	10	mg/kg	EPA 8015B	
Benzene	**2.4**	2.2	ug/kg	EPA 8260B/5035	

Sample ID: B- 4-20.0 **Laboratory ID:** T180381-20

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**31**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**42**	10	mg/kg	EPA 8015B	
Benzene	**3.3**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B-4 **Laboratory ID:** T180381-23

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**1.7**	0.50	mg/l	EPA 8015B	

Sample ID: B- 15-1.0 **Laboratory ID:** T180381-24

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**490**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**1200**	10	mg/kg	EPA 8015B	

Sample ID: B- 15-10.0 **Laboratory ID:** T180381-26

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**47**	10	mg/kg	EPA 8015B	
Benzene	**2.1**	1.9	ug/kg	EPA 8260B/5035	

Sample ID: B- 15-20.0 **Laboratory ID:** T180381-28

No Results Detected

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Sample ID: B- 10-1.0 **Laboratory ID:** T180381-32

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**63**	10	mg/kg	EPA 8015B	
Barium	**86**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**10**	2.0	mg/kg	EPA 6010B	
Copper	**9.6**	1.0	mg/kg	EPA 6010B	
Nickel	**12**	2.0	mg/kg	EPA 6010B	
Vanadium	**39**	5.0	mg/kg	EPA 6010B	
Zinc	**54**	1.0	mg/kg	EPA 6010B	

Sample ID: B- 10-10.0 **Laboratory ID:** T180381-34

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**180**	1.0	mg/kg	EPA 6010B	
Chromium	**18**	2.0	mg/kg	EPA 6010B	
Cobalt	**11**	2.0	mg/kg	EPA 6010B	
Copper	**6.4**	1.0	mg/kg	EPA 6010B	
Nickel	**10**	2.0	mg/kg	EPA 6010B	
Vanadium	**41**	5.0	mg/kg	EPA 6010B	
Zinc	**56**	1.0	mg/kg	EPA 6010B	
Benzene	**1.7**	1.7	ug/kg	EPA 8260B/5035	

Sample ID: B- 10-20.0 **Laboratory ID:** T180381-36

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**25**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**11**	10	mg/kg	EPA 8015B	
Barium	**35**	1.0	mg/kg	EPA 6010B	
Chromium	**11**	2.0	mg/kg	EPA 6010B	
Cobalt	**6.6**	2.0	mg/kg	EPA 6010B	
Copper	**7.5**	1.0	mg/kg	EPA 6010B	
Nickel	**9.7**	2.0	mg/kg	EPA 6010B	
Vanadium	**18**	5.0	mg/kg	EPA 6010B	
Zinc	**21**	1.0	mg/kg	EPA 6010B	
Benzene	**1.9**	1.7	ug/kg	EPA 8260B/5035	

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Northgate Environmental Management -- Laguna Hills	Project:	3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number:	2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager:	Derrick Willis	02/08/18 15:47

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 8-1.0

T180381-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	**35**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**120**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*84.6 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**92**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**20**	2.0	"	"	"	"	"	"	
Cobalt	**9.5**	2.0	"	"	"	"	"	"	
Copper	**8.5**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**14**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**33**	5.0	"	"	"	"	"	"	
Zinc	**33**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 8-1.0

T180381-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	R-07
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*89.8 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*109 %*	*35-140*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 8-1.0

T180381-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
Surrogate: Tetrachloro-meta-xylene		*60.7 %*		*35-140*	*8020528*	*02/05/18*	*02/06/18*	*EPA 8082*	
Surrogate: Decachlorobiphenyl		*56.3 %*		*35-140*	*"*	*"*	*"*	*"*	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/05/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	

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T180381-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.9	ug/kg	1	8020132	02/01/18	02/05/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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T180381-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8		*86.0 %*	*85.5-116*		*8020132*	*02/01/18*	*02/05/18*	*EPA 8260B/5035*	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*81.2-123*		*"*	*"*	*"*	*"*	*S-GC*
Surrogate: Dibromofluoromethane		*109 %*	*95.7-135*		*"*	*"*	*"*	*"*	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	

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T180381-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	

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T180381-02 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*67.6 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*77.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*83.4 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*76.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*80.1 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*109 %*	*29.1-130*		"	"	"	"	

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T180381-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	**21**	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	**180**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**150**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*85.3 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**53**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**9.5**	2.0	"	"	"	"	"	"	
Cobalt	**6.4**	2.0	"	"	"	"	"	"	
Copper	**6.0**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**7.8**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**21**	5.0	"	"	"	"	"	"	
Zinc	**20**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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T180381-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*52.3 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*51.3 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	**2.0**	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180381-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 8-10.0

T180381-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.1 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.7 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*104 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180381-04 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180381-04 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*63.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*73.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*82.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*77.4 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*77.9 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*114 %*	*29.1-130*		"	"	"	"	

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T180381-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	**46**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**48**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	**5.8**	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	

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T180381-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	

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T180381-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	3.6	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98.1 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	

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T180381-05 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bis(2-chloroisopropyl)ether	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 8-15.0

T180381-05 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2-Nitroaniline	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*70.0 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*72.7 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*82.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*90.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*79.9 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*122 %*	*29.1-130*		"	"	"	"	

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*85.5 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**140**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**30**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**15**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**21**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**34**	5.0	"	"	"	"	"	"	
Zinc	**49**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*64.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*61.2 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	**3.2**	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.7	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.7 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.4 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-06 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*66.0 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*72.6 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*74.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*77.0 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*114 %*	*29.1-130*		"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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B- 12-1.0

T180381-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	**23**	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	**260**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**950**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*69.8 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**91**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**9.6**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**14**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**33**	5.0	"	"	"	"	"	"	
Zinc	**34**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 12-1.0

T180381-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 12-1.0

T180381-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
Surrogate: Tetrachloro-meta-xylene		*53.8 %*		*35-140*	*8020528*	*02/05/18*	*02/06/18*	*EPA 8082*	
Surrogate: Decachlorobiphenyl		*45.2 %*		*35-140*	*"*	*"*	*"*	*"*	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	

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T180381-09 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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T180381-09 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8	*83.3 %*	*85.5-116*			*8020132*	*02/01/18*	*02/06/18*	*EPA 8260B/5035*	*S-GC*
Surrogate: 4-Bromofluorobenzene	*77.7 %*	*81.2-123*			*"*	*"*	*"*	*"*	*S-GC*
Surrogate: Dibromofluoromethane	*105 %*	*95.7-135*			*"*	*"*	*"*	*"*	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (g,h,i) perylene	ND	5000	"	"	"	"	"	"	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07

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T180381-09 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Bromophenyl phenyl ether	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	R-07
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07
Indeno (1,2,3-cd) pyrene	ND	1500	"	"	"	"	"	"	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07

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T180381-09 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*57.2 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*61.2 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*62.7 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*55.8 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*52.6 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*80.1 %*	*29.1-130*		"	"	"	"	

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T180381-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/07/18	EPA 8015B	
C13-C28 (DRO)	**46**	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*91.7 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**51**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**27**	2.0	"	"	"	"	"	"	
Cobalt	**4.8**	2.0	"	"	"	"	"	"	
Copper	**4.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**9.8**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**22**	5.0	"	"	"	"	"	"	
Zinc	**20**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 12-10.0

T180381-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*57.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*57.6 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	

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T180381-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.4 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.0 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*104 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180381-11 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180381-11 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*67.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*72.4 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*79.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*78.6 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*81.4 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*106 %*	*29.1-130*		"	"	"	"	

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T180381-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.2 %*	*65-135*		*"*	*"*	*"*	*"*	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**81**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**14**	2.0	"	"	"	"	"	"	
Copper	**13**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**15**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**23**	5.0	"	"	"	"	"	"	
Zinc	**30**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	

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T180381-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*76.2 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*66.7 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180381-13 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 12-20.0

T180381-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*91.0 %*	*95.7-135*		"	"	"	"	*S-GC*
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180381-13 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180381-13 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*69.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*75.6 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*80.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*79.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*76.3 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*112 %*	*29.1-130*		"	"	"	"	

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T180381-16 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	400	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*35.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**210**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**1300**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*88.6 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**84**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**10**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**13**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**36**	5.0	"	"	"	"	"	"	
Zinc	**46**	1.0	"	"	"	"	"	"	

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T180381-16 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*

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T180381-16 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56.8 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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T180381-16 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 4-1.0

T180381-16 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.2 %*		*85.5-116*	"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*69.0 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*100 %*		*95.7-135*	"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180381-16 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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T180381-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Semivolatile Organic Compounds by EPA Method 8270C									
Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*61.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*59.4 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*69.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*60.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*54.5 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*76.9 %*	*29.1-130*		"	"	"	"	

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T180381-18 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	500	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*44.1 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*93.9 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**39**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**9.0**	2.0	"	"	"	"	"	"	
Copper	**7.3**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**15**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**27**	5.0	"	"	"	"	"	"	
Zinc	**24**	1.0	"	"	"	"	"	"	

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T180381-18 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*55.6 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*54.0 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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T180381-18 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	

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T180381-18 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	**3.2**	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.7 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.9 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*101 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-18 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 4-10.0

T180381-18 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Hexachlorobenzene	ND	1500	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*70.3 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*72.2 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*87.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*79.2 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*106 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-19 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	400	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*38.7 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**1100**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**1000**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-19 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
Methylene chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	

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T180381-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Vinyl chloride	ND	2.2	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Benzene	**2.4**	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	2.2	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.6 %*		*85.5-116*	"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*68.5 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*109 %*		*95.7-135*	"	"	"	"	

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T180381-20 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	330	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*48.7 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**31**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**42**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*72.4 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*62.6 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*55.4 %*	*35-140*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	

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T180381-20 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloromethane	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	

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T180381-20 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Tetrachloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**3.3**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.1 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*75.3 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*107 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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T180381-20 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 4-20.0

T180381-20 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*72.6 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*73.2 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*80.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*81.3 %*	*32.4-102*		"	"	"	"	

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T180381-20 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2,4,6-Tribromophenol	*79.3 %*		*18.1-105*		*8020535*	*02/05/18*	*02/07/18*	*EPA 8270C*	
Surrogate: Terphenyl-dl4	*99.3 %*		*29.1-130*		*"*	*"*	*"*	*"*	

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B-4

T180381-23 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	50	ug/l	1	8020142	02/01/18	02/03/18	EPA 8015B	
Surrogate: 4-Bromofluorobenzene		*78.4 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**1.7**	0.50	mg/l	1	8020233	02/02/18	02/07/18	EPA 8015B	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*75.3 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	

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B-4

T180381-23 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	

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T180381-23 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Ethylbenzene	ND	0.50	ug/l	1	8020127	02/01/18	02/01/18	EPA 8260B	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*110 %*	*88.8-117*		"	"	"	"	

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T180381-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	370	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*31.1 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**490**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**1200**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*69.2 %*	*65-135*		"	"	"	"	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*

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T180381-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*52.9 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*46.6 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180381-24 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 15-1.0

T180381-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.7	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*77.6 %*		*85.5-116*	"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*67.2 %*		*81.2-123*	"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*99.6 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Aniline	ND	1500	"	"	"	"	"	"	R-07
Phenol	ND	5000	"	"	"	"	"	"	R-07
2-Chlorophenol	ND	5000	"	"	"	"	"	"	R-07
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	R-07
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	R-07
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthene	ND	1500	"	"	"	"	"	"	R-07
4-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	R-07
Pentachlorophenol	ND	5000	"	"	"	"	"	"	R-07
Pyrene	ND	1500	"	"	"	"	"	"	R-07
Acenaphthylene	ND	1500	"	"	"	"	"	"	R-07
Anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	R-07
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	R-07

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T180381-24 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	5000	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	R-07
Benzyl alcohol	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	R-07
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4-Chloroaniline	ND	1500	"	"	"	"	"	"	R-07
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	R-07
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	R-07
Chrysene	ND	1500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	R-07
Dibenzofuran	ND	1500	"	"	"	"	"	"	R-07
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	R-07
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	R-07
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Diethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	R-07
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	R-07
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	R-07
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	R-07
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	R-07
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	R-07
Fluoranthene	ND	1500	"	"	"	"	"	"	R-07
Fluorene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	R-07
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	R-07
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	R-07
Hexachloroethane	ND	1500	"	"	"	"	"	"	R-07

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T180381-24 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semivolatile Organic Compounds by EPA Method 8270C									
Indeno (1,2,3-cd) pyrene	ND	1500	ug/kg	5	8020535	02/05/18	02/07/18	EPA 8270C	R-07
Isophorone	ND	1500	"	"	"	"	"	"	R-07
2-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
4-Methylphenol	ND	5000	"	"	"	"	"	"	R-07
Naphthalene	ND	1500	"	"	"	"	"	"	R-07
2-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
3-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
4-Nitroaniline	ND	1500	"	"	"	"	"	"	R-07
Nitrobenzene	ND	5000	"	"	"	"	"	"	R-07
2-Nitrophenol	ND	5000	"	"	"	"	"	"	R-07
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	R-07
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	R-07
2,3,5,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	R-07
Phenanthrene	ND	1500	"	"	"	"	"	"	R-07
Azobenzene	ND	1500	"	"	"	"	"	"	R-07
Pyridine	ND	1500	"	"	"	"	"	"	R-07
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	R-07
Surrogate: 2-Fluorophenol		*58.9 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*57.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*67.7 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*61.8 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*63.1 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*61.5 %*	*29.1-130*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	430	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*38.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**47**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*86.5 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/06/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*51.5 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*50.7 %*	*35-140*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 15-10.0

T180381-26 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloromethane	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-26 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Tetrachloroethene	ND	1.9	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	**2.1**	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*80.4 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*69.4 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*101 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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T180381-26 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 15-10.0

T180381-26 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*66.0 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*70.1 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.2 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*79.7 %*	*32.4-102*		"	"	"	"	

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T180381-26 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2,4,6-Tribromophenol		*83.6 %*	*18.1-105*		*8020535*	*02/05/18*	*02/07/18*	*EPA 8270C*	
Surrogate: Terphenyl-dl4		*98.6 %*	*29.1-130*		*"*	*"*	*"*	*"*	

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T180381-28 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	360	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*67.3 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*92.6 %*	*65-135*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70.6 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*62.1 %*	*35-140*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Bromochloromethane	ND	2.6	"	"	"	"	"	"	
Bromodichloromethane	ND	2.6	"	"	"	"	"	"	
Bromoform	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	2.6	"	"	"	"	"	"	
n-Butylbenzene	ND	2.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.6	"	"	"	"	"	"	
Chlorobenzene	ND	2.6	"	"	"	"	"	"	
Chloroethane	ND	2.6	"	"	"	"	"	"	
Chloroform	ND	2.6	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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T180381-28 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloromethane	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
2-Chlorotoluene	ND	2.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.6	"	"	"	"	"	"	
Dibromochloromethane	ND	2.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.6	"	"	"	"	"	"	
Dibromomethane	ND	2.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.6	"	"	"	"	"	"	
Isopropylbenzene	ND	2.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.6	"	"	"	"	"	"	
Methylene chloride	ND	2.6	"	"	"	"	"	"	
Naphthalene	ND	2.6	"	"	"	"	"	"	
n-Propylbenzene	ND	2.6	"	"	"	"	"	"	
Styrene	ND	2.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.6	"	"	"	"	"	"	

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T180381-28 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Tetrachloroethene	ND	2.6	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
1,2,3-Trichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.6	"	"	"	"	"	"	
Trichloroethene	ND	2.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Benzene	ND	2.6	"	"	"	"	"	"	
Toluene	ND	2.6	"	"	"	"	"	"	
Ethylbenzene	ND	2.6	"	"	"	"	"	"	
m,p-Xylene	ND	5.2	"	"	"	"	"	"	
o-Xylene	ND	2.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.7 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*82.2 %*	*95.7-135*		"	"	"	"	*S-GC*
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	

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T180381-28 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	

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T180381-28 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2,4-Dinitrophenol	ND	1000	ug/kg	1	8020535	02/05/18	02/07/18	EPA 8270C	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*54.9 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*60.4 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*67.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*65.1 %*	*32.4-102*		"	"	"	"	

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T180381-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Semivolatile Organic Compounds by EPA Method 8270C									
Surrogate: 2,4,6-Tribromophenol		*72.9 %*	*18.1-105*		*8020535*	*02/05/18*	*02/07/18*	*EPA 8270C*	
Surrogate: Terphenyl-dl4		*110 %*	*29.1-130*		*"*	*"*	*"*	*"*	

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T180381-32 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	370	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*30.8 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**63**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*74.3 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**86**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**10**	2.0	"	"	"	"	"	"	
Copper	**9.6**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**12**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**39**	5.0	"	"	"	"	"	"	
Zinc	**54**	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 10-1.0

T180381-32 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	
alpha-Chlordane	ND	50	"	"	"	"	"	"	
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*81.6 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*108 %*	*35-140*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

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T180381-32 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*68.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*55.0 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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T180381-32 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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T180381-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8020132	02/01/18	02/07/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84.0 %*		*85.5-116*	"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*68.0 %*		*81.2-123*	"	"	"	"	*S-04*
Surrogate: Dibromofluoromethane		*94.4 %*		*95.7-135*	"	"	"	"	*S-04*

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T180381-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	420	ug/kg	1	8020131	02/01/18	02/02/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*32.6 %*	*65-135*		"	"	"	"	*S-03*
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	ND	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*88.9 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**180**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**18**	2.0	"	"	"	"	"	"	
Cobalt	**11**	2.0	"	"	"	"	"	"	
Copper	**6.4**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**10**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**41**	5.0	"	"	"	"	"	"	
Zinc	**56**	1.0	"	"	"	"	"	"	

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T180381-34 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*69.9 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*66.7 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.4	"	"	"	"	"	"	

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T180381-34 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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T180381-34 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trichloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**1.7**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.4	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.1 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.1 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.2 %*		*95.7-135*	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

B- 10-20.0

T180381-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015B									
C6-C12 (GRO)	ND	440	ug/kg	1	8020131	02/01/18	02/06/18	EPA 8015B/5035	
Surrogate: 4-Bromofluorobenzene		*79.6 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015B									
C13-C28 (DRO)	**25**	10	mg/kg	1	8020213	02/02/18	02/08/18	EPA 8015B	
C29-C40 (MORO)	**11**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*69.0 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020541	02/05/18	02/06/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**35**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**11**	2.0	"	"	"	"	"	"	
Cobalt	**6.6**	2.0	"	"	"	"	"	"	
Copper	**7.5**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**9.7**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**18**	5.0	"	"	"	"	"	"	
Zinc	**21**	1.0	"	"	"	"	"	"	

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T180381-36 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020540	02/05/18	02/06/18	EPA 7471A Soil	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020528	02/05/18	02/07/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*65.3 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*62.2 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	

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T180381-36 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
Methylene chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	

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B- 10-20.0

T180381-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Volatile Organic Compounds by EPA Method 8260B									
Trichloroethene	ND	1.7	ug/kg	1	8020132	02/01/18	02/06/18	EPA 8260B/5035	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
Vinyl chloride	ND	1.7	"	"	"	"	"	"	
Benzene	**1.9**	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
m,p-Xylene	ND	3.5	"	"	"	"	"	"	
o-Xylene	ND	1.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		*76.8 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*60.4 %*	*81.2-123*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*101 %*	*95.7-135*		"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Purgeable Petroleum Hydrocarbons by EPA 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020131 - EPA 5035 GC										
Blank (8020131-BLK1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	*98.8*		*"*	*100*		*98.8*	*65-135*			
LCS (8020131-BS1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	2110	400	ug/kg	1980		106	75-125			
Surrogate: 4-Bromofluorobenzene	*127*		*"*	*100*		*127*	*65-135*			
LCS Dup (8020131-BSD1)				Prepared & Analyzed: 02/01/18						
C6-C12 (GRO)	2020	400	ug/kg	2000		101	75-125	4.41	20	
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*65-135*			
Batch 8020142 - EPA 5030 GC										
Blank (8020142-BLK1)				Prepared: 02/01/18 Analyzed: 02/03/18						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	*76.8*		*"*	*100*		*76.8*	*65-135*			
LCS (8020142-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
C6-C12 (GRO)	1090	50	ug/l	1000		109	75-125			
Surrogate: 4-Bromofluorobenzene	*115*		*"*	*100*		*115*	*65-135*			
LCS Dup (8020142-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
C6-C12 (GRO)	1020	50	ug/l	1000		102	75-125	7.35	20	
Surrogate: 4-Bromofluorobenzene	*116*		*"*	*100*		*116*	*65-135*			

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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020213 - EPA 3550B GC										
Blank (8020213-BLK1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*87.5*		*"*	*100*		*87.5*	*65-135*			
Surrogate: p-Terphenyl	*87.5*		*"*	*100*		*87.5*	*65-135*			
LCS (8020213-BS1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	500	10	mg/kg	500		100	75-125			
C13-C28 (DRO)	500	10	"	500		100	75-125			
Surrogate: p-Terphenyl	*83.3*		*"*	*100*		*83.3*	*65-135*			
Surrogate: p-Terphenyl	*83.3*		*"*	*100*		*83.3*	*65-135*			
LCS Dup (8020213-BSD1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	490	10	mg/kg	500		98.2	75-125	2.25	20	
C13-C28 (DRO)	490	10	"	500		98.2	75-125	2.25	20	
Surrogate: p-Terphenyl	*87.1*		*"*	*100*		*87.1*	*65-135*			
Surrogate: p-Terphenyl	*87.1*		*"*	*100*		*87.1*	*65-135*			
Batch 8020233 - EPA 3510C GC										
Blank (8020233-BLK1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: p-Terphenyl	*3.02*		*"*	*4.00*		*75.6*	*65-135*			

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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020233 - EPA 3510C GC										
LCS (8020233-BS1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	16.0	0.50	mg/l	20.0		80.2	75-125			
Surrogate: p-Terphenyl	*2.69*		"	*4.00*		*67.3*	*65-135*			
LCS Dup (8020233-BSD1)				Prepared: 02/02/18 Analyzed: 02/07/18						
C13-C28 (DRO)	16.8	0.50	mg/l	20.0		84.2	75-125	4.92	20	
Surrogate: p-Terphenyl	*2.62*		"	*4.00*		*65.6*	*65-135*			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020541 - EPA 3050B										
Blank (8020541-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
LCS (8020541-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Arsenic	115	5.0	mg/kg	100		115	75-125			
Barium	112	1.0	"	100		112	75-125			
Cadmium	109	2.0	"	100		109	75-125			
Chromium	111	2.0	"	100		111	75-125			
Lead	117	3.0	"	100		117	75-125			
Matrix Spike (8020541-MS1)	**Source: T180381-09**			Prepared: 02/05/18 Analyzed: 02/06/18						
Arsenic	91.9	5.0	mg/kg	97.1	0.838	93.8	75-125			
Barium	202	1.0	"	97.1	91.1	114	75-125			
Cadmium	91.1	2.0	"	97.1	0.825	92.9	75-125			
Chromium	114	2.0	"	97.1	17.9	98.6	75-125			
Lead	101	3.0	"	97.1	ND	104	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020541 - EPA 3050B										
Matrix Spike Dup (8020541-MSD1)	**Source: T180381-09**			Prepared: 02/05/18 Analyzed: 02/06/18						
Arsenic	88.6	5.0	mg/kg	100	0.838	87.8	75-125	3.67	20	
Barium	196	1.0	"	100	91.1	105	75-125	2.93	20	
Cadmium	90.7	2.0	"	100	0.825	89.9	75-125	0.371	20	
Chromium	114	2.0	"	100	17.9	95.9	75-125	0.129	20	
Lead	96.4	3.0	"	100	ND	96.4	75-125	4.78	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020540 - EPA 7471A Soil										
Blank (8020540-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Mercury	ND	0.10	mg/kg							
LCS (8020540-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Mercury	0.350	0.10	mg/kg	0.385		91.1	80-120			
Matrix Spike (8020540-MS1)	**Source: T180381-09**			Prepared: 02/05/18 Analyzed: 02/06/18						
Mercury	0.387	0.10	mg/kg	0.417	ND	92.8	75-125			
Matrix Spike Dup (8020540-MSD1)	**Source: T180381-09**			Prepared: 02/05/18 Analyzed: 02/06/18						
Mercury	0.379	0.10	mg/kg	0.410	ND	92.5	75-125	2.05	20	

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
Blank (8020134-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4´-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4´-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4´-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	*8.92*		*"*	*10.0*		*89.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.62*		*"*	*10.0*		*86.2*	*35-140*			
LCS (8020134-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0		85.5	40-120			
Heptachlor	34.1	5.0	"	40.0		85.2	40-120			
Aldrin	32.0	5.0	"	40.0		80.0	40-120			
Dieldrin	32.6	5.0	"	40.0		81.5	40-120			
Endrin	32.7	5.0	"	40.0		81.9	40-120			
4,4´-DDT	30.7	5.0	"	40.0		76.8	33-147			
Surrogate: Tetrachloro-meta-xylene	*8.47*		*"*	*10.0*		*84.7*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.36*		*"*	*10.0*		*83.6*	*35-140*			

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
LCS Dup (8020134-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4´-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	*8.06*		*"*	*10.0*		*80.6*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.56*		*"*	*10.0*		*85.6*	*35-140*			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020528 - EPA 3550 ECD/GCMS										
Blank (8020528-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	*5.93*		"	*9.80*		*60.5*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.49*		"	*9.80*		*66.2*	*35-140*			
LCS (8020528-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
PCB-1016	58.3	10	ug/kg	99.0		58.9	40-130			
PCB-1260	65.4	10	"	99.0		66.1	40-130			
Surrogate: Tetrachloro-meta-xylene	*6.25*		"	*9.90*		*63.1*	*35-140*			
Surrogate: Decachlorobiphenyl	*6.75*		"	*9.90*		*68.1*	*35-140*			
LCS Dup (8020528-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
PCB-1016	63.1	10	ug/kg	99.0		63.7	40-130	7.83	30	
PCB-1260	68.4	10	"	99.0		69.1	40-130	4.44	30	
Surrogate: Tetrachloro-meta-xylene	*6.80*		"	*9.90*		*68.7*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.06*		"	*9.90*		*71.3*	*35-140*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
Blank (8020127-BLK1)				Prepared & Analyzed: 02/01/18						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
Blank (8020127-BLK1)				Prepared & Analyzed: 02/01/18						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	*19.3*		*"*	*20.0*		*96.4*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.2*		*"*	*20.0*		*106*	*81-136*			
Surrogate: Toluene-d8	*21.8*		*"*	*20.0*		*109*	*88.8-117*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020127 - EPA 5030 GCMS										
LCS (8020127-BS1)				Prepared & Analyzed: 02/01/18						
Chlorobenzene	21.5	1.0	ug/l	20.0		108	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	20.0	1.0	"	20.0		100	75-125			
Benzene	21.8	0.50	"	20.0		109	75-125			
Toluene	21.8	0.50	"	20.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	*22.2*		*"*	*20.0*		*111*	*83.5-119*			
Surrogate: Dibromofluoromethane	*21.2*		*"*	*20.0*		*106*	*81-136*			
Surrogate: Toluene-d8	*21.6*		*"*	*20.0*		*108*	*88.8-117*			
LCS Dup (8020127-BSD1)				Prepared & Analyzed: 02/01/18						
Chlorobenzene	21.2	1.0	ug/l	20.0		106	75-125	1.83	20	
1,1-Dichloroethene	21.3	1.0	"	20.0		106	75-125	0.235	20	
Trichloroethene	20.2	1.0	"	20.0		101	75-125	1.24	20	
Benzene	22.3	0.50	"	20.0		111	75-125	2.13	20	
Toluene	21.8	0.50	"	20.0		109	75-125	0.0458	20	
Surrogate: 4-Bromofluorobenzene	*21.8*		*"*	*20.0*		*109*	*83.5-119*			
Surrogate: Dibromofluoromethane	*20.9*		*"*	*20.0*		*105*	*81-136*			
Surrogate: Toluene-d8	*21.3*		*"*	*20.0*		*106*	*88.8-117*			
Batch 8020132 - EPA 5035 GCMS										
Blank (8020132-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020132 - EPA 5035 GCMS										
Blank (8020132-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
4-Chlorotoluene	ND	2.0	ug/kg							
Dibromochloromethane	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
Dibromomethane	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
Dichlorodifluoromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
1,3-Dichloropropane	ND	2.0	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020132 - EPA 5035 GCMS										
Blank (8020132-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
1,2,3-Trichloropropane	ND	2.0	ug/kg							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	*37.7*		*"*	*39.7*		*95.0*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.2*		*"*	*39.7*		*96.3*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.7*		*"*	*39.7*		*120*	*95.7-135*			
LCS (8020132-BS1)				Prepared: 02/01/18 Analyzed: 02/06/18						
Chlorobenzene	38.6	2.0	ug/kg	39.8		97.0	75-125			
1,1-Dichloroethene	46.2	2.0	"	39.8		116	75-125			
Trichloroethene	37.7	2.0	"	39.8		94.8	75-125			
Benzene	44.8	2.0	"	39.8		113	75-125			
Toluene	36.8	2.0	"	39.8		92.5	75-125			
Surrogate: Toluene-d8	*36.5*		*"*	*39.8*		*91.8*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.2*		*"*	*39.8*		*95.9*	*81.2-123*			
Surrogate: Dibromofluoromethane	*46.4*		*"*	*39.8*		*117*	*95.7-135*			
LCS Dup (8020132-BSD1)				Prepared: 02/01/18 Analyzed: 02/06/18						
Chlorobenzene	39.5	2.0	ug/kg	39.7		99.6	75-125	2.45	20	
1,1-Dichloroethene	46.7	2.0	"	39.7		118	75-125	1.21	20	
Trichloroethene	38.6	2.0	"	39.7		97.2	75-125	2.35	20	
Benzene	46.3	2.0	"	39.7		117	75-125	3.20	20	
Toluene	38.5	2.0	"	39.7		97.1	75-125	4.60	20	
Surrogate: Toluene-d8	*35.5*		*"*	*39.7*		*89.4*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*34.7*		*"*	*39.7*		*87.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*50.4*		*"*	*39.7*		*127*	*95.7-135*			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020535 - EPA 3550 ECD/GCMS										
Blank (8020535-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Carbazole	ND	300	ug/kg							
Aniline	ND	300	"							
Phenol	ND	1000	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020535 - EPA 3550 ECD/GCMS										
Blank (8020535-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020535 - EPA 3550 ECD/GCMS										
Blank (8020535-BLK1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Surrogate: 2-Fluorophenol	*2140*		*ug/kg*	*3270*		*65.4*	*15-121*			
Surrogate: Phenol-d6	*2310*		*"*	*3270*		*70.6*	*24-113*			
Surrogate: Nitrobenzene-d5	*2820*		*"*	*3270*		*86.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2480*		*"*	*3270*		*75.8*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2220*		*"*	*3270*		*68.0*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3370*		*"*	*3270*		*103*	*29.1-130*			
LCS (8020535-BS1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Phenol	2000	1000	ug/kg	3300		60.7	34-114			
2-Chlorophenol	1950	1000	"	3300		59.0	34-114			
1,4-Dichlorobenzene	1980	300	"	3300		60.1	34-114			
N-Nitrosodi-n-propylamine	2840	300	"	3300		85.9	30-110			
1,2,4-Trichlorobenzene	2040	300	"	3300		61.7	39-119			
4-Chloro-3-methylphenol	2550	1000	"	3300		77.2	50-130			
Acenaphthene	2360	300	"	3300		71.5	34-114			
Pentachlorophenol	2160	1000	"	3300		65.4	50-130			
Pyrene	2090	300	"	3300		63.4	30-110			
Surrogate: 2-Fluorophenol	*1930*		*"*	*3300*		*58.5*	*15-121*			
Surrogate: Phenol-d6	*2150*		*"*	*3300*		*65.1*	*24-113*			
Surrogate: Nitrobenzene-d5	*2580*		*"*	*3300*		*78.1*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2350*		*"*	*3300*		*71.1*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2300*		*"*	*3300*		*69.7*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3560*		*"*	*3300*		*108*	*29.1-130*			
LCS Dup (8020535-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Phenol	2030	1000	ug/kg	3270		62.0	34-114	1.13	42	
2-Chlorophenol	1960	1000	"	3270		60.0	34-114	0.745	40	
1,4-Dichlorobenzene	1980	300	"	3270		60.5	34-114	0.405	28	
N-Nitrosodi-n-propylamine	2940	300	"	3270		90.1	30-110	3.76	38	
1,2,4-Trichlorobenzene	2080	300	"	3270		63.5	39-119	1.87	28	
4-Chloro-3-methylphenol	2710	1000	"	3270		82.8	50-130	6.03	42	
Acenaphthene	2450	300	"	3270		74.9	34-114	3.66	31	
Pentachlorophenol	2080	1000	"	3270		63.5	50-130	3.93	50	
Pyrene	1970	300	"	3270		60.3	30-110	5.91	31	
Surrogate: 2-Fluorophenol	*1880*		*"*	*3270*		*57.7*	*15-121*			
Surrogate: Phenol-d6	*2160*		*"*	*3270*		*66.1*	*24-113*			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020535 - EPA 3550 ECD/GCMS										
LCS Dup (8020535-BSD1)				Prepared: 02/05/18 Analyzed: 02/06/18						
Surrogate: Nitrobenzene-d5	*2580*		*ug/kg*	*3270*		*79.0*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2400*		*"*	*3270*		*73.3*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2320*		*"*	*3270*		*71.1*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3430*		*"*	*3270*		*105*	*29.1-130*			

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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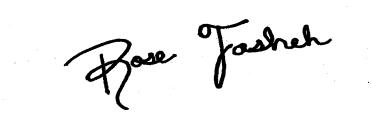
Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 15:47

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-03	The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.



Rose Fasheh, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 Of 3
Project Name: 3rd q
Collector: Dana Brown Client Project #: 2047.15
Batch #: T180381 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-A	1-31-2018	07:01	AQ	V	H													01		2
B-8-1.0		07:25	SO	V+GS														02		7
B-8-5.0		07:28		V+SC														03		7
B-8-10.0		07:33																04		7
B-8-15.0		07:39																05		7
B-8-20.0		07:44																06		7
B-8-25.0		07:50																07		7
B-8-30.0		07:54																08		7
B-12-1.0		08:10		V+GS														09		7
B-12-5.0		08:16		V+SC														10		7
B-12-10.0		08:20																11		7
B-12-15.0		08:25																12		7
B-12-20.0		08:28																13		7
B-12-25.0		08:33																14		7
B-12-30.0		08:37																15		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana Brown	1-31-18 14:20	[signature] Kris Kubota	1-31-18 1420
[signature] Kris Kubota	1-31-18 1625	[signature]	1-31-18 16:25

Total # of containers: 100
Chain of Custody seals Y/N/NA: (N)
Seals intact? Y/N/NA: (N)
Received good condition/cold: 2.6

Notes: 2.8 1.4

Turn around time:

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172278

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 2 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: T180381 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
B-4-1.0	1-31-18	09:40	SO	V+GJ														16		7
B-4-5.0		09:46		V+SC														17		7
B-4-10.0		09:50																18		7
B-4-15.0		09:55																19		7
B-4-20.0		10:00																20		7
B-4-25.0		10:05																21		7
B-4-30.0		10:09																22		7
B-4		10:25	AQ	V+PB														23		4
B-15-1.0		10:45	SO	V+GJ														24		7
B-15-5.0		10:48		V+SC														25		7
B-15-10.0		10:52																26		7
B-15-15.0		10:55																27		7
B-15-20.0		11:00																28		7
B-15-25.0		11:09																29		7
B-15-30.0		11:15																30		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana R Brown	1-31-18 14:20	[signature] Yuki Kubota	1-31-18 14:20
[signature] Yuki Kubota	1-31-18 16:25	[signature]	1-31-18 16:25

Total # of containers: 107
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 2.6

Turn around time:

Notes: 2.8, 1.4

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172279

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 3 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: T180331 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals				Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-B	1-31-2018	10:30	AQ	V	H													31		2
B-10 -1.0		13:12	SO	V+GJ														32		7
B-10 - 5.0		13:15		V+SC														33		7
B-10 - 10.0		13:18																34		7
B-10 - 15.0		13:20																35		7
B-10 - 20.0		13:24																36		7
B-10 - 25.0		13:28																37		7
B-10 - 30.0		13:32																38		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1-31-2018 14:20	[signature] Yuri Kubota	1-31-18 1420
[signature] & Yuri Kubota	1-31-18 1625	[signature]	1-31-18 16:25
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold: 2.6

Notes: 2.8 1.4

Turn around time:

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172290

SunStar Laboratories — Celebrating 20 Years!

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180381

Client Name: NORTHGATE Project: 3RD & FAIRFAX

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: KRIS Date/Time Courier Received: 1/31/18 14:20

Lab Received by: SUNNY Date/Time Lab Received: 1/31/18 16:25

Total number of coolers received: 3

Temperature: Cooler #1 2.8	°C +/- the CF (- 0.2°C) = 2.6	°C corrected temperature	
Temperature: Cooler #2 3.0	°C +/- the CF (- 0.2°C) = 2.8	°C corrected temperature	
Temperature: Cooler #3 1.6	°C +/- the CF (- 0.2°C) = 1.4	°C corrected temperature	
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes**	☐ **No**
If NO:			
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: BL 2/1/18

Comments: NO TAT ON EITHER: ORIGINAL COC OR REVISED

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SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 Of 3
Project Name: 3rd Q
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-A	1-31-2018	07:01	AQ	V	H													01		2
B-8-1.0		07:25	SO	V+GS	X			X				X	X		X	X		02		7
B-8-5.0		07:28		V+SC														03		7
B-8-10.0		07:33			X			X				X	X		X			04		7
B-8-15.0		07:39			X			X				X						05		7
B-8-20.0		07:44			X			X				X	X		X			06		7
B-8-25.0		07:50																07		7
B-8-30.0		07:54																08		7
B-12-1.0		08:10		V+GS	X			X				X	X		X	X		09		7
B-12-5.0		08:16		V+SC														10		7
B-12-10.0		08:20			X			X				X	X		X			11		7
B-12-15.0		08:25																12		7
B-12-20.0		08:28			X			X				X	X		X			13		7
B-12-25.0		08:33																14		7
B-12-30.0		08:37																15		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana Brown	1-31-18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 100
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold
Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172278

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 2 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-4-1.0	1-31-18	09:40	SO	V+GJ	X			X		X		X	X		X	X		16		7
B-4-5.0		09:46		V+SC														17		7
B-4-10.0		09:50			X			X		X		X	X		X			18		7
B-4-15.0		09:55			X					X		X						19		7
B-4-20.0		10:00			X			X		X		X			X			20		7
B-4-25.0		10:05																21		7
B-4-30.0		10:09																22		7
B-4		10:25	AQ	V+PB	X					X		X						23		4
B-15-1.0		10:45	SO	V+GJ	X			X		X		X			X	X		24		7
B-15-5.0		10:48		V+SC														25		7
B-15-10.0		10:52			X			X		X		X			X			26		7
B-15-15.0		10:55																27		7
B-15-20.0		11:00			X			X		X		X			X			28		7
B-15-25.0		11:09																29		7
B-15-30.0		11:15																30		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Total # of containers	107
Dana R Brown	1-31-18			Chain of Custody seals Y/N/NA	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Seals intact? Y/N/NA	
				Received good condition/cold	
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Turn around time:	

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172279

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 3 of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-B	1-31-2018	10:30	AQ	V	H													31		2
B-10 -1.0		13:12	SO	V+GJ	X					X		X	X		X	X		32		7
B-10 - 5.0		13:15		V+SC														33		7
B-10 - 10.0		13:18			X					X		X	X		X			34		7
B-10 - 15.0		13:20																35		7
B-10 - 20.0		13:24			X					X		X	X		X			36		7
B-10 - 25.0		13:28																37		7
B-10 - 30.0		13:32																38		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	1-31-2018		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172290

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 1 Of 3
Project Name: 3rd q
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-A	1-31-2018	07:01	AQ	V	H													01		2
B-8-1.0		07:25	SO	V+GS	X			X				X	X		X	X		02		7
B-8-5.0		07:28		V+SC														03		7
B-8-10.0		07:33			X			X				X	X		X			04		7
B-8-15.0		07:39			X			X				X						05		7
B-8-20.0		07:44			X			X				X	X		X			06		7
B-8-25.0		07:50																07		7
B-8-30.0		07:54																08		7
B-12-1.0		08:10		V+GS	X			X				X	X		X	X		09		7
B-12-5.0		08:16		V+SC														10		7
B-12-10.0		08:20			X			X				X	X		X			11		7
B-12-15.0		08:25																12		7
B-12-20.0		08:28			X			X				X	X		X			13		7
B-12-25.0		08:33																14		7
B-12-30.0		08:37																15		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana Brown	1-31-18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 100
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold
Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172278

SunStar Laboratories

Chain of Custody Record

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 24911 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 2 Of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
B-4-1.0	1-31-18	09:40	SO	V+GJ	X			X		X		X	X		X	X		16		7
B-4-5.0		09:46		V+SC														17		7
B-4-10.0		09:50			X			X		X		X	X		X			18		7
B-4-15.0		09:55			X					X		X						19		7
B-4-20.0		10:00			X			X		X		X			X			20		7
B-4-25.0		10:05																21		7
B-4-30.0		10:09																22		7
B-4		10:25	AQ	V+PB	X					X		X						23		4
B-15-1.0		10:45	SO	V+GJ	X			X		X		X			X	X		24		7
B-15-5.0		10:48		V+SC														25		7
B-15-10.0		10:52			X			X		X		X			X			26		7
B-15-15.0		10:55																27		7
B-15-20.0		11:00			X			X		X		X			X			28		7
B-15-25.0		11:09																29		7
B-15-30.0		11:15																30		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana R Brown	1-31-18		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 107
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold:
Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 172279

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-31-2018 Page: 3 of 3
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.31-B	1-31-2018	10:30	AQ	V	H													31		2
B-10 -1.0		13:12	SO	V+GJ	X					X		X	X		X	X		32		7
B-10 - 5.0		13:15		V+SC														33		7
B-10 - 10.0		13:18			X					X		X	X		X			34		7
B-10 - 15.0		13:20																35		7
B-10 - 20.0		13:24			X					X		X	X		X			36		7
B-10 - 25.0		13:28																37		7
B-10 - 30.0	↓	13:32	↓	↓														38		7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
DaDL	1-31-2018		
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time:

Notes

Sample disposal instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172290

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: **Northgate Environmental Management -- Laguna** **Project Manager:** **Rose Fasheh**
Project: **3rd & Fairfax** **Project Number:** **2047.15**

Report To:
Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 02/08/18 17:00 (5 day TAT)
Received By: Sunny Lounethone Date Received: 01/31/18 16:25
Logged In By: Brian Charon Date Logged In: 02/01/18 07:18

Samples Received at: **2.8°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T180381-01 TB-2018.01.31-A [Water] Sampled 01/31/18 07:01 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-02 B- 8-1.0 [Soil] Sampled 01/31/18 07:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 07:25	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:25	
8081 Pesticides	02/08/18 15:00	5	02/14/18 07:25	
8082 PCB	02/08/18 15:00	5	02/14/18 07:25	
8260 5035	02/08/18 15:00	5	02/14/18 07:25	
8270C	02/08/18 15:00	5	02/14/18 07:25	
T180381-03 B- 8-5.0 [Soil] Sampled 01/31/18 07:28 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-04 B- 8-10.0 [Soil] Sampled 01/31/18 07:33 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 07:33	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:33	
8082 PCB	02/08/18 15:00	5	02/14/18 07:33	
8260 5035	02/08/18 15:00	5	02/14/18 07:33	
8270C	02/08/18 15:00	5	02/14/18 07:33	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180381-05 B- 8-15.0 [Soil] Sampled 01/31/18 07:39 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:39	
8260 5035	02/08/18 15:00	5	02/14/18 07:39	
8270C	02/08/18 15:00	5	02/14/18 07:39	
T180381-06 B- 8-20.0 [Soil] Sampled 01/31/18 07:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 07:44	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 07:44	
8082 PCB	02/08/18 15:00	5	02/14/18 07:44	
8260 5035	02/08/18 15:00	5	02/14/18 07:44	
8270C	02/08/18 15:00	5	02/14/18 07:44	
T180381-07 B- 8-25.0 [Soil] Sampled 01/31/18 07:50 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-08 B- 8-30.0 [Soil] Sampled 01/31/18 07:54 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-09 B- 12-1.0 [Soil] Sampled 01/31/18 08:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:10	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:10	
8081 Pesticides	02/08/18 15:00	5	02/14/18 08:10	
8082 PCB	02/08/18 15:00	5	02/14/18 08:10	
8260 5035	02/08/18 15:00	5	02/14/18 08:10	
8270C	02/08/18 15:00	5	02/14/18 08:10	
T180381-10 B- 12-5.0 [Soil] Sampled 01/31/18 08:16 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180381-11 B- 12-10.0 [Soil] Sampled 01/31/18 08:20 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:20	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:20	
8082 PCB	02/08/18 15:00	5	02/14/18 08:20	
8260 5035	02/08/18 15:00	5	02/14/18 08:20	
8270C	02/08/18 15:00	5	02/14/18 08:20	
T180381-12 B- 12-15.0 [Soil] Sampled 01/31/18 08:25 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-13 B- 12-20.0 [Soil] Sampled 01/31/18 08:28 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 08:28	
8015 Carbon Chain	02/08/18 15:00	5	02/14/18 08:28	
8082 PCB	02/08/18 15:00	5	02/14/18 08:28	
8260 5035	02/08/18 15:00	5	02/14/18 08:28	
8270C	02/08/18 15:00	5	02/14/18 08:28	
T180381-14 B- 12-25.0 [Soil] Sampled 01/31/18 08:33 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-15 B- 12-30.0 [Soil] Sampled 01/31/18 08:37 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-16 B- 4-1.0 [Soil] Sampled 01/31/18 09:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 09:40	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:40	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:40	
8081 Pesticides	02/08/18 15:00	5	02/14/18 09:40	
8082 PCB	02/08/18 15:00	5	02/14/18 09:40	
8260 5035	02/08/18 15:00	5	02/14/18 09:40	
8270C	02/08/18 15:00	5	02/14/18 09:40	
T180381-17 B- 4-5.0 [Soil] Sampled 01/31/18 09:46 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180381-18 B- 4-10.0 [Soil] Sampled 01/31/18 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 09:50	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:50	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:50	
8082 PCB	02/08/18 15:00	5	02/14/18 09:50	
8260 5035	02/08/18 15:00	5	02/14/18 09:50	
8270C	02/08/18 15:00	5	02/14/18 09:50	
T180381-19 B- 4-15.0 [Soil] Sampled 01/31/18 09:55 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 09:55	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 09:55	
8260 5035	02/08/18 15:00	5	02/14/18 09:55	
T180381-20 B- 4-20.0 [Soil] Sampled 01/31/18 10:00 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:00	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:00	
8082 PCB	02/08/18 15:00	5	02/14/18 10:00	
8260 5035	02/08/18 15:00	5	02/14/18 10:00	
8270C	02/08/18 15:00	5	02/14/18 10:00	
T180381-21 B- 4-25.0 [Soil] Sampled 01/31/18 10:05 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-22 B- 4-30.0 [Soil] Sampled 01/31/18 10:09 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-23 B-4 [Water] Sampled 01/31/18 10:25 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/07/18 10:25	
8015 m Gas Purge	02/08/18 15:00	5	02/14/18 10:25	
8260	02/08/18 15:00	5	02/14/18 10:25	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180381-24 B- 15-1.0 [Soil] Sampled 01/31/18 10:45 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:45	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:45	
8081 Pesticides	02/08/18 15:00	5	02/14/18 10:45	
8082 PCB	02/08/18 15:00	5	02/14/18 10:45	
8260 5035	02/08/18 15:00	5	02/14/18 10:45	
8270C	02/08/18 15:00	5	02/14/18 10:45	
T180381-25 B- 15-5.0 [Soil] Sampled 01/31/18 10:48 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-26 B- 15-10.0 [Soil] Sampled 01/31/18 10:52 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 10:52	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 10:52	
8082 PCB	02/08/18 15:00	5	02/14/18 10:52	
8260 5035	02/08/18 15:00	5	02/14/18 10:52	
8270C	02/08/18 15:00	5	02/14/18 10:52	
T180381-27 B- 15-15.0 [Soil] Sampled 01/31/18 10:55 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-28 B- 15-20.0 [Soil] Sampled 01/31/18 11:00 (GMT-08:00) Pacific Time (US &				
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 11:00	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 11:00	
8082 PCB	02/08/18 15:00	5	02/14/18 11:00	
8260 5035	02/08/18 15:00	5	02/14/18 11:00	
8270C	02/08/18 15:00	5	02/14/18 11:00	
T180381-29 B- 15-25.0 [Soil] Sampled 01/31/18 11:09 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-30 B- 15-30.0 [Soil] Sampled 01/31/18 11:15 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180381

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180381-31 TB-2018.01.31-B [Water] Sampled 01/31/18 10:30 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-32 B- 10-1.0 [Soil] Sampled 01/31/18 13:12 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:12	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:12	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:12	
8081 Pesticides	02/08/18 15:00	5	02/14/18 13:12	
8082 PCB	02/08/18 15:00	5	02/14/18 13:12	
8260 5035	02/08/18 15:00	5	02/14/18 13:12	
T180381-33 B- 10-5.0 [Soil] Sampled 01/31/18 13:15 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-34 B- 10-10.0 [Soil] Sampled 01/31/18 13:18 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:18	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:18	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:18	
8082 PCB	02/08/18 15:00	5	02/14/18 13:18	
8260 5035	02/08/18 15:00	5	02/14/18 13:18	
T180381-35 B- 10-15.0 [Soil] Sampled 01/31/18 13:20 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180381-36 B- 10-20.0 [Soil] Sampled 01/31/18 13:24 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/30/18 13:24	
8015 CC (D/MO)	02/08/18 15:00	5	02/14/18 13:24	
8015 m 5035-GRO	02/08/18 15:00	5	02/14/18 13:24	
8082 PCB	02/08/18 15:00	5	02/14/18 13:24	
8260 5035	02/08/18 15:00	5	02/14/18 13:24	
T180381-37 B- 10-25.0 [Soil] Sampled 01/31/18 13:28 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

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WORK ORDER

T180381

Client:	**Northgate Environmental Management -- Laguna**	**Project Manager:**	**Rose Fasheh**
Project:	**3rd & Fairfax**	**Project Number:**	**2047.15**

Analysis	Due	TAT	Expires	Comments

T180381-38 B- 10-30.0 [Soil] Sampled 01/31/18 13:32 (GMT-08:00) Pacific Time HOLD (US &

[NO ANALYSES]

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By

Date

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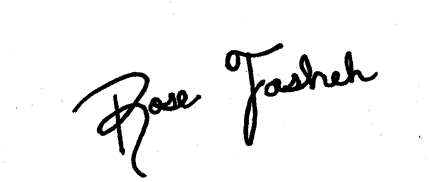
08 February 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 01/31/18 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rose Fasheh
Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-7-1.0	T180384-02	Soil	01/30/18 14:25	01/31/18 16:25
B-7-10.0	T180384-04	Soil	01/30/18 14:53	01/31/18 16:25
B-7-20.0	T180384-06	Soil	01/30/18 14:59	01/31/18 16:25
B-9-1.0	T180384-09	Soil	01/30/18 16:30	01/31/18 16:25
B-9-10.0	T180384-11	Soil	01/30/18 16:43	01/31/18 16:25
B-9-20.0	T180384-13	Soil	01/30/18 16:57	01/31/18 16:25

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

DETECTIONS SUMMARY

Sample ID: B-7-1.0 **Laboratory ID:** T180384-02

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**67**	10	mg/kg	EPA 8015B	
Barium	**75**	1.0	mg/kg	EPA 6010B	
Chromium	**22**	2.0	mg/kg	EPA 6010B	
Cobalt	**12**	2.0	mg/kg	EPA 6010B	
Copper	**8.0**	1.0	mg/kg	EPA 6010B	
Nickel	**15**	2.0	mg/kg	EPA 6010B	
Vanadium	**42**	5.0	mg/kg	EPA 6010B	
Zinc	**45**	1.0	mg/kg	EPA 6010B	

Sample ID: B-7-10.0 **Laboratory ID:** T180384-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**37**	1.0	mg/kg	EPA 6010B	
Chromium	**15**	2.0	mg/kg	EPA 6010B	
Cobalt	**5.5**	2.0	mg/kg	EPA 6010B	
Copper	**5.0**	1.0	mg/kg	EPA 6010B	
Nickel	**12**	2.0	mg/kg	EPA 6010B	
Vanadium	**20**	5.0	mg/kg	EPA 6010B	
Zinc	**17**	1.0	mg/kg	EPA 6010B	

Sample ID: B-7-20.0 **Laboratory ID:** T180384-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**38**	1.0	mg/kg	EPA 6010B	
Chromium	**12**	2.0	mg/kg	EPA 6010B	
Cobalt	**5.0**	2.0	mg/kg	EPA 6010B	
Copper	**5.1**	1.0	mg/kg	EPA 6010B	
Nickel	**13**	2.0	mg/kg	EPA 6010B	
Vanadium	**14**	5.0	mg/kg	EPA 6010B	
Zinc	**11**	1.0	mg/kg	EPA 6010B	

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Rose Fasheh

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Sample ID: B-9-1.0 **Laboratory ID:** T180384-09

Analyte	Result	Reporting Limit	Units	Method	Notes
C29-C40 (MORO)	**110**	10	mg/kg	EPA 8015B	
Barium	**83**	1.0	mg/kg	EPA 6010B	
Chromium	**6.5**	2.0	mg/kg	EPA 6010B	
Cobalt	**6.2**	2.0	mg/kg	EPA 6010B	
Copper	**16**	1.0	mg/kg	EPA 6010B	
Nickel	**6.1**	2.0	mg/kg	EPA 6010B	
Vanadium	**16**	5.0	mg/kg	EPA 6010B	
Zinc	**38**	1.0	mg/kg	EPA 6010B	

Sample ID: B-9-10.0 **Laboratory ID:** T180384-11

Analyte	Result	Reporting Limit	Units	Method	Notes
Barium	**55**	1.0	mg/kg	EPA 6010B	
Chromium	**19**	2.0	mg/kg	EPA 6010B	
Cobalt	**8.3**	2.0	mg/kg	EPA 6010B	
Copper	**11**	1.0	mg/kg	EPA 6010B	
Nickel	**18**	2.0	mg/kg	EPA 6010B	
Vanadium	**23**	5.0	mg/kg	EPA 6010B	
Zinc	**33**	1.0	mg/kg	EPA 6010B	

Sample ID: B-9-20.0 **Laboratory ID:** T180384-13

Analyte	Result	Reporting Limit	Units	Method	Notes
C13-C28 (DRO)	**31**	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	**20**	10	mg/kg	EPA 8015B	
Barium	**79**	0.91	mg/kg	EPA 6010B	
Cadmium	**2.6**	1.8	mg/kg	EPA 6010B	
Chromium	**14**	1.8	mg/kg	EPA 6010B	
Cobalt	**11**	1.8	mg/kg	EPA 6010B	
Copper	**8.6**	0.91	mg/kg	EPA 6010B	
Nickel	**16**	1.8	mg/kg	EPA 6010B	
Vanadium	**19**	4.5	mg/kg	EPA 6010B	
Zinc	**28**	0.91	mg/kg	EPA 6010B	

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Laguna Hills CA, 92653	Project Manager:	Derrick Willis	02/08/18 16:57

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	**67**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*89.7 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**75**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**22**	2.0	"	"	"	"	"	"	
Cobalt	**12**	2.0	"	"	"	"	"	"	
Copper	**8.0**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**15**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**42**	5.0	"	"	"	"	"	"	
Zinc	**45**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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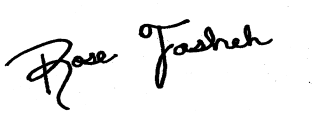

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	50	ug/kg	10	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	50	"	"	"	"	"	"	R-07
beta-BHC	ND	50	"	"	"	"	"	"	R-07
delta-BHC	ND	50	"	"	"	"	"	"	R-07
Heptachlor	ND	50	"	"	"	"	"	"	R-07
Aldrin	ND	50	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	50	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	50	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	50	"	"	"	"	"	"	R-07
Endosulfan I	ND	50	"	"	"	"	"	"	R-07
4,4´-DDE	ND	50	"	"	"	"	"	"	R-07
Dieldrin	ND	50	"	"	"	"	"	"	
Endrin	ND	50	"	"	"	"	"	"	R-07
4,4´-DDD	ND	50	"	"	"	"	"	"	R-07
Endosulfan II	ND	50	"	"	"	"	"	"	R-07
4,4´-DDT	ND	50	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	50	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	50	"	"	"	"	"	"	R-07
Methoxychlor	ND	100	"	"	"	"	"	"	R-07
Endrin ketone	ND	50	"	"	"	"	"	"	R-07
Toxaphene	ND	2000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*106 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*111 %*	*35-140*		"	"	"	"	
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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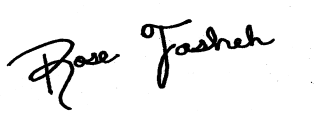

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
Surrogate: Tetrachloro-meta-xylene		*74.6 %*		*35-140*	*8020133*	*02/01/18*	*02/02/18*	*EPA 8082*	
Surrogate: Decachlorobiphenyl		*59.0 %*		*35-140*	*"*	*"*	*"*	*"*	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	

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Rose Fasheh

Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8		*103 %*		*85.5-116*	*8013121*	*02/01/18*	*02/01/18*	*EPA 8260B/5035*	
Surrogate: 4-Bromofluorobenzene		*91.2 %*		*81.2-123*	*"*	*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*101 %*		*95.7-135*	*"*	*"*	*"*	*"*	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-1.0

T180384-02 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

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T180384-02 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*67.1 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*77.0 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*84.5 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*76.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*75.4 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*97.6 %*	*29.1-130*		"	"	"	"	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*96.8 %*	*65-135*		*"*	*"*	*"*	*"*	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**37**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**15**	2.0	"	"	"	"	"	"	
Cobalt	**5.5**	2.0	"	"	"	"	"	"	
Copper	**5.0**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**12**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**20**	5.0	"	"	"	"	"	"	
Zinc	**17**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*54.2 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53.3 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
Methylene chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.8	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	1.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180384-04 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/05/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*52.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*60.3 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*74.8 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*78.2 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*79.0 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*115 %*	*29.1-130*		"	"	"	"	

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Rose Fasheh, Project Manager

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24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-7-20.0

T180384-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*92.9 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**38**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**12**	2.0	"	"	"	"	"	"	
Cobalt	**5.0**	2.0	"	"	"	"	"	"	
Copper	**5.1**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**13**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**14**	5.0	"	"	"	"	"	"	
Zinc	**11**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

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T180384-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*58.0 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*59.0 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	2.9	"	"	"	"	"	"	
Bromodichloromethane	ND	2.9	"	"	"	"	"	"	
Bromoform	ND	2.9	"	"	"	"	"	"	
Bromomethane	ND	2.9	"	"	"	"	"	"	
n-Butylbenzene	ND	2.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.9	"	"	"	"	"	"	
Chlorobenzene	ND	2.9	"	"	"	"	"	"	
Chloroethane	ND	2.9	"	"	"	"	"	"	
Chloroform	ND	2.9	"	"	"	"	"	"	
Chloromethane	ND	2.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.9	"	"	"	"	"	"	
Dibromochloromethane	ND	2.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.9	"	"	"	"	"	"	
Dibromomethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.9	"	"	"	"	"	"	

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T180384-06 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.9	"	"	"	"	"	"	
Isopropylbenzene	ND	2.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.9	"	"	"	"	"	"	
Methylene chloride	ND	2.9	"	"	"	"	"	"	
Naphthalene	ND	2.9	"	"	"	"	"	"	
n-Propylbenzene	ND	2.9	"	"	"	"	"	"	
Styrene	ND	2.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.9	"	"	"	"	"	"	
Tetrachloroethene	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.9	"	"	"	"	"	"	
Trichloroethene	ND	2.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.9	"	"	"	"	"	"	

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T180384-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	2.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	2.9	"	"	"	"	"	"	
Benzene	ND	2.9	"	"	"	"	"	"	
Toluene	ND	2.9	"	"	"	"	"	"	
Ethylbenzene	ND	2.9	"	"	"	"	"	"	
m,p-Xylene	ND	5.8	"	"	"	"	"	"	
o-Xylene	ND	2.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*95.7-135*		"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180384-06 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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B-7-20.0

T180384-06 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*71.5 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*71.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*92.9 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*87.7 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*90.9 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*106 %*	*29.1-130*		"	"	"	"	

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B-9-1.0

T180384-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	**110**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*90.5 %*	*65-135*		*"*	*"*	*"*	*"*	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**83**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**6.5**	2.0	"	"	"	"	"	"	
Cobalt	**6.2**	2.0	"	"	"	"	"	"	
Copper	**16**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**6.1**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**16**	5.0	"	"	"	"	"	"	
Zinc	**38**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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T180384-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organochlorine Pesticides by EPA Method 8081A									
alpha-BHC	ND	500	ug/kg	100	8020134	02/01/18	02/06/18	EPA 8081A	R-07
gamma-BHC (Lindane)	ND	500	"	"	"	"	"	"	R-07
beta-BHC	ND	500	"	"	"	"	"	"	R-07
delta-BHC	ND	500	"	"	"	"	"	"	R-07
Heptachlor	ND	500	"	"	"	"	"	"	R-07
Aldrin	ND	500	"	"	"	"	"	"	R-07
Heptachlor epoxide	ND	500	"	"	"	"	"	"	R-07
gamma-Chlordane	ND	500	"	"	"	"	"	"	R-07
alpha-Chlordane	ND	500	"	"	"	"	"	"	R-07
Endosulfan I	ND	500	"	"	"	"	"	"	R-07
4,4´-DDE	ND	500	"	"	"	"	"	"	R-07
Dieldrin	ND	500	"	"	"	"	"	"	R-07
Endrin	ND	500	"	"	"	"	"	"	R-07
4,4´-DDD	ND	500	"	"	"	"	"	"	R-07
Endosulfan II	ND	500	"	"	"	"	"	"	R-07
4,4´-DDT	ND	500	"	"	"	"	"	"	R-07
Endrin aldehyde	ND	500	"	"	"	"	"	"	R-07
Endosulfan sulfate	ND	500	"	"	"	"	"	"	R-07
Methoxychlor	ND	1000	"	"	"	"	"	"	R-07
Endrin ketone	ND	500	"	"	"	"	"	"	R-07
Toxaphene	ND	20000	"	"	"	"	"	"	R-07
Surrogate: Tetrachloro-meta-xylene		*%*	*35-140*		"	"	"	"	*S-01*
Surrogate: Decachlorobiphenyl		*%*	*35-140*		"	"	"	"	*S-01*
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-9-1.0

T180384-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
Surrogate: Tetrachloro-meta-xylene		*69.4 %*		*35-140*	*8020133*	*02/01/18*	*02/02/18*	*EPA 8082*	
Surrogate: Decachlorobiphenyl		*52.6 %*		*35-140*	*"*	*"*	*"*	*"*	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloropropane	ND	2.0	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.1	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	

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T180384-09 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
Surrogate: Toluene-d8		*103 %*	*85.5-116*		*8013121*	*02/01/18*	*02/01/18*	*EPA 8260B/5035*	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*81.2-123*		*"*	*"*	*"*	*"*	
Surrogate: Dibromofluoromethane		*104 %*	*95.7-135*		*"*	*"*	*"*	*"*	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	

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T180384-09 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Bromophenyl phenyl ether	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	

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T180384-09 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*78.9 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*87.5 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*86.3 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*98.1 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*93.2 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*105 %*	*29.1-130*		"	"	"	"	

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T180384-11 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*92.4 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**55**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**19**	2.0	"	"	"	"	"	"	
Cobalt	**8.3**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**18**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**23**	5.0	"	"	"	"	"	"	
Zinc	**33**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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T180384-11 (Soil)

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*62.4 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*60.5 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

B-9-10.0

T180384-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
Methylene chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	

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T180384-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	1.9	ug/kg	1	8013121	02/01/18	02/01/18	EPA 8260B/5035	
Vinyl chloride	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	1.9	"	"	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.4 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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T180384-11 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180384-11 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*91.1 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*77.8 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*78.3 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*95.5 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*81.3 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*113 %*	*29.1-130*		"	"	"	"	

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T180384-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C6-C12 (GRO)	ND	10	mg/kg	1	8020135	02/01/18	02/02/18	EPA 8015B	
C13-C28 (DRO)	**31**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**20**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*90.3 %*		*65-135*	"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	2.7	mg/kg	1	8020228	02/02/18	02/05/18	EPA 6010B	
Silver	ND	1.8	"	"	"	"	"	"	
Arsenic	ND	4.5	"	"	"	"	"	"	
Barium	**79**	0.91	"	"	"	"	"	"	
Beryllium	ND	0.91	"	"	"	"	"	"	
Cadmium	**2.6**	1.8	"	"	"	"	"	"	
Chromium	**14**	1.8	"	"	"	"	"	"	
Cobalt	**11**	1.8	"	"	"	"	"	"	
Copper	**8.6**	0.91	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Molybdenum	ND	4.5	"	"	"	"	"	"	
Nickel	**16**	1.8	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Thallium	ND	1.8	"	"	"	"	"	"	
Vanadium	**19**	4.5	"	"	"	"	"	"	
Zinc	**28**	0.91	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	8020227	02/02/18	02/05/18	EPA 7471A Soil	

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T180384-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Polychlorinated Biphenyls by EPA Method 8082									
PCB-1016	ND	10	ug/kg	1	8020133	02/01/18	02/02/18	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*77.5 %*		*35-140*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*70.7 %*		*35-140*	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	

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T180384-13 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
Methylene chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	

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T180384-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
1,2,4-Trimethylbenzene	ND	2.0	ug/kg	1	8013121	02/01/18	02/03/18	EPA 8260B/5035	
Vinyl chloride	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*		*85.5-116*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.9 %*		*81.2-123*	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*95.7-135*	"	"	"	"	
Semivolatile Organic Compounds by EPA Method 8270C									
Carbazole	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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B-9-20.0

T180384-13 (Soil)

SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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T180384-13 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semivolatile Organic Compounds by EPA Method 8270C									
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	8020137	02/01/18	02/06/18	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		*84.7 %*	*15-121*		"	"	"	"	
Surrogate: Phenol-d6		*64.6 %*	*24-113*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*72.8 %*	*21.3-119*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*86.0 %*	*32.4-102*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*80.5 %*	*18.1-105*		"	"	"	"	
Surrogate: Terphenyl-dl4		*120 %*	*29.1-130*		"	"	"	"	

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Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020135 - EPA 3550B GC										
Blank (8020135-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*83.0*		*"*	*98.0*		*84.6*	*65-135*			
LCS (8020135-BS1)				Prepared: 02/01/18 Analyzed: 02/02/18						
C13-C28 (DRO)	480	10	mg/kg	490		97.2	75-125			
Surrogate: p-Terphenyl	*84.2*		*"*	*98.0*		*85.8*	*65-135*			
LCS Dup (8020135-BSD1)				Prepared: 02/01/18 Analyzed: 02/02/18						
C13-C28 (DRO)	480	10	mg/kg	490		98.3	75-125	1.09	20	
Surrogate: p-Terphenyl	*88.2*		*"*	*98.0*		*90.0*	*65-135*			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020228 - EPA 3050B										
Blank (8020228-BLK1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
LCS (8020228-BS1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	107	5.0	mg/kg	100		107	75-125			
Barium	112	1.0	"	100		112	75-125			
Cadmium	111	2.0	"	100		111	75-125			
Chromium	111	2.0	"	100		111	75-125			
Lead	116	3.0	"	100		116	75-125			
Matrix Spike (8020228-MS1)	**Source: T180384-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	84.6	5.0	mg/kg	98.0	ND	86.3	75-125			
Barium	170	1.0	"	98.0	74.9	96.7	75-125			
Cadmium	91.7	2.0	"	98.0	0.897	92.6	75-125			
Chromium	117	2.0	"	98.0	21.8	96.9	75-125			
Lead	114	3.0	"	98.0	ND	116	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020228 - EPA 3050B										
Matrix Spike Dup (8020228-MSD1)	**Source: T180384-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Arsenic	87.7	5.0	mg/kg	97.1	ND	90.3	75-125	3.56	20	
Barium	199	1.0	"	97.1	74.9	128	75-125	16.0	20	QR-04
Cadmium	91.3	2.0	"	97.1	0.897	93.1	75-125	0.428	20	
Chromium	115	2.0	"	97.1	21.8	96.2	75-125	1.39	20	
Lead	105	3.0	"	97.1	ND	108	75-125	7.67	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020227 - EPA 7471A Soil										
Blank (8020227-BLK1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	ND	0.10	mg/kg							
LCS (8020227-BS1)				Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.388	0.10	mg/kg	0.417		93.1	80-120			
Matrix Spike (8020227-MS1)	**Source: T180384-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.374	0.10	mg/kg	0.391	ND	95.8	75-125			
Matrix Spike Dup (8020227-MSD1)	**Source: T180384-02**			Prepared: 02/02/18 Analyzed: 02/05/18						
Mercury	0.385	0.10	mg/kg	0.403	ND	95.4	75-125	2.71	20	

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
Blank (8020134-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4´-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4´-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4´-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	*8.92*		*"*	*10.0*		*89.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.62*		*"*	*10.0*		*86.2*	*35-140*			
LCS (8020134-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	34.2	5.0	ug/kg	40.0		85.5	40-120			
Heptachlor	34.1	5.0	"	40.0		85.2	40-120			
Aldrin	32.0	5.0	"	40.0		80.0	40-120			
Dieldrin	32.6	5.0	"	40.0		81.5	40-120			
Endrin	32.7	5.0	"	40.0		81.9	40-120			
4,4´-DDT	30.7	5.0	"	40.0		76.8	33-147			
Surrogate: Tetrachloro-meta-xylene	*8.47*		*"*	*10.0*		*84.7*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.36*		*"*	*10.0*		*83.6*	*35-140*			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020134 - EPA 3550 ECD/GCMS										
LCS Dup (8020134-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
gamma-BHC (Lindane)	32.4	5.0	ug/kg	40.0		81.1	40-120	5.30	30	
Heptachlor	32.6	5.0	"	40.0		81.5	40-120	4.51	30	
Aldrin	30.6	5.0	"	40.0		76.4	40-120	4.58	30	
Dieldrin	31.1	5.0	"	40.0		77.7	40-120	4.85	30	
Endrin	31.1	5.0	"	40.0		77.8	40-120	5.11	30	
4,4´-DDT	28.6	5.0	"	40.0		71.5	33-147	7.13	30	
Surrogate: Tetrachloro-meta-xylene	*8.06*		*"*	*10.0*		*80.6*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.56*		*"*	*10.0*		*85.6*	*35-140*			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020133 - EPA 3550 ECD/GCMS										
Blank (8020133-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	*7.49*		"	*10.0*		*74.9*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.46*		"	*10.0*		*74.6*	*35-140*			
LCS (8020133-BS1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	63.7	10	ug/kg	100		63.7	40-130			
PCB-1260	65.7	10	"	100		65.7	40-130			
Surrogate: Tetrachloro-meta-xylene	*7.72*		"	*10.0*		*77.2*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.73*		"	*10.0*		*77.3*	*35-140*			
LCS Dup (8020133-BSD1)				Prepared: 02/01/18 Analyzed: 02/02/18						
PCB-1016	69.0	10	ug/kg	100		69.0	40-130	7.99	30	
PCB-1260	61.7	10	"	100		61.7	40-130	6.28	30	
Surrogate: Tetrachloro-meta-xylene	*7.48*		"	*10.0*		*74.8*	*35-140*			
Surrogate: Decachlorobiphenyl	*7.15*		"	*10.0*		*71.5*	*35-140*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
Blank (8013121-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Bromobenzene	ND	2.0	ug/kg							
Bromochloromethane	ND	2.0	"							
Bromodichloromethane	ND	2.0	"							
Bromoform	ND	2.0	"							
Bromomethane	ND	2.0	"							
n-Butylbenzene	ND	2.0	"							
sec-Butylbenzene	ND	2.0	"							
tert-Butylbenzene	ND	2.0	"							
Carbon tetrachloride	ND	2.0	"							
Chlorobenzene	ND	2.0	"							
Chloroethane	ND	2.0	"							
Chloroform	ND	2.0	"							
Chloromethane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	"							
4-Chlorotoluene	ND	2.0	"							
Dibromochloromethane	ND	2.0	"							
1,2-Dibromo-3-chloropropane	ND	4.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							
Dibromomethane	ND	2.0	"							
1,2-Dichlorobenzene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	"							
1,4-Dichlorobenzene	ND	2.0	"							
Dichlorodifluoromethane	ND	2.0	"							
1,1-Dichloroethane	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
1,1-Dichloroethene	ND	2.0	"							
cis-1,2-Dichloroethene	ND	2.0	"							
trans-1,2-Dichloroethene	ND	2.0	"							
1,2-Dichloropropane	ND	2.0	"							
1,3-Dichloropropane	ND	2.0	"							
2,2-Dichloropropane	ND	2.0	"							
1,1-Dichloropropene	ND	2.0	"							
cis-1,3-Dichloropropene	ND	2.0	"							
trans-1,3-Dichloropropene	ND	2.0	"							
Hexachlorobutadiene	ND	2.0	"							
Isopropylbenzene	ND	2.0	"							

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
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949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
Blank (8013121-BLK1)				Prepared: 01/31/18 Analyzed: 02/01/18						
p-Isopropyltoluene	ND	2.0	ug/kg							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Propylbenzene	ND	2.0	"							
Styrene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	"							
1,1,1,2-Tetrachloroethane	ND	2.0	"							
Tetrachloroethene	ND	2.0	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,1,2-Trichloroethane	ND	2.0	"							
1,1,1-Trichloroethane	ND	2.0	"							
Trichloroethene	ND	2.0	"							
Trichlorofluoromethane	ND	2.0	"							
1,2,3-Trichloropropane	ND	2.0	"							
1,3,5-Trimethylbenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	2.0	"							
Vinyl chloride	ND	2.0	"							
Benzene	ND	2.0	"							
Toluene	ND	2.0	"							
Ethylbenzene	ND	2.0	"							
m,p-Xylene	ND	4.0	"							
o-Xylene	ND	2.0	"							
Surrogate: Toluene-d8	*41.6*		"	*39.6*		*105*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*35.4*		"	*39.6*		*89.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*41.9*		"	*39.6*		*106*	*95.7-135*			
LCS (8013121-BS1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	30.0	2.0	ug/kg	40.0		75.0	75-125			
1,1-Dichloroethene	48.5	2.0	"	40.0		121	75-125			
Trichloroethene	36.2	2.0	"	40.0		90.4	75-125			
Benzene	38.3	2.0	"	40.0		95.6	75-125			
Toluene	33.7	2.0	"	40.0		84.3	75-125			
Surrogate: Toluene-d8	*42.1*		"	*40.0*		*105*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*38.3*		"	*40.0*		*95.7*	*81.2-123*			
Surrogate: Dibromofluoromethane	*43.6*		"	*40.0*		*109*	*95.7-135*			

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

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Providing Quality Analytical Services Nationwide

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8013121 - EPA 5035 GCMS										
LCS Dup (8013121-BSD1)				Prepared: 01/31/18 Analyzed: 02/01/18						
Chlorobenzene	36.3	2.0	ug/kg	39.6		91.5	75-125	18.8	20	
1,1-Dichloroethene	47.8	2.0	"	39.6		121	75-125	1.49	20	
Trichloroethene	42.8	2.0	"	39.6		108	75-125	16.7	20	
Benzene	46.4	2.0	"	39.6		117	75-125	19.2	20	
Toluene	40.2	2.0	"	39.6		101	75-125	17.4	20	
Surrogate: Toluene-d8	*41.9*		*"*	*39.6*		*106*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*36.4*		*"*	*39.6*		*91.9*	*81.2-123*			
Surrogate: Dibromofluoromethane	*42.2*		*"*	*39.6*		*106*	*95.7-135*			

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Carbazole	ND	300	ug/kg							
Phenol	ND	1000	"							
Aniline	ND	300	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
Blank (8020137-BLK1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Surrogate: 2-Fluorophenol	*2550*		*ug/kg*	*3250*		*78.5*	*15-121*			
Surrogate: Phenol-d6	*2470*		*"*	*3250*		*76.0*	*24-113*			
Surrogate: Nitrobenzene-d5	*2510*		*"*	*3250*		*77.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2700*		*"*	*3250*		*83.3*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2880*		*"*	*3250*		*88.8*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3500*		*"*	*3250*		*108*	*29.1-130*			
LCS (8020137-BS1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Phenol	2390	1000	ug/kg	3240		73.9	34-114			
2-Chlorophenol	2400	1000	"	3240		74.2	34-114			
1,4-Dichlorobenzene	2380	300	"	3240		73.5	34-114			
N-Nitrosodi-n-propylamine	2870	300	"	3240		88.6	30-110			
1,2,4-Trichlorobenzene	2450	300	"	3240		75.6	39-119			
4-Chloro-3-methylphenol	2120	1000	"	3240		65.4	50-130			
Acenaphthene	2530	300	"	3240		78.0	34-114			
Pentachlorophenol	1930	1000	"	3240		59.7	50-130			
Pyrene	2040	300	"	3240		62.9	30-110			
Surrogate: 2-Fluorophenol	*2410*		*"*	*3240*		*74.4*	*15-121*			
Surrogate: Phenol-d6	*2550*		*"*	*3240*		*78.9*	*24-113*			
Surrogate: Nitrobenzene-d5	*2940*		*"*	*3240*		*91.0*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2660*		*"*	*3240*		*82.3*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2820*		*"*	*3240*		*87.2*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3310*		*"*	*3240*		*102*	*29.1-130*			
LCS Dup (8020137-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Phenol	1860	1000	ug/kg	3330		55.9	34-114	24.7	42	
2-Chlorophenol	1990	1000	"	3330		59.7	34-114	18.7	40	
1,4-Dichlorobenzene	2060	300	"	3330		61.8	34-114	14.3	28	
N-Nitrosodi-n-propylamine	2220	300	"	3330		66.5	30-110	25.6	38	
1,2,4-Trichlorobenzene	2250	300	"	3330		67.4	39-119	8.48	28	
4-Chloro-3-methylphenol	2550	1000	"	3330		76.5	50-130	18.6	42	
Acenaphthene	2440	300	"	3330		73.3	34-114	3.34	31	
Pentachlorophenol	2160	1000	"	3330		65.0	50-130	11.4	50	
Pyrene	2090	300	"	3330		62.7	30-110	2.56	31	
Surrogate: 2-Fluorophenol	*2230*		*"*	*3330*		*66.9*	*15-121*			
Surrogate: Phenol-d6	*2040*		*"*	*3330*		*61.1*	*24-113*			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020137 - EPA 3550 ECD/GCMS										
LCS Dup (8020137-BSD1)				Prepared: 02/01/18 Analyzed: 02/05/18						
Surrogate: Nitrobenzene-d5	*2080*		*ug/kg*	*3330*		*62.3*	*21.3-119*			
Surrogate: 2-Fluorobiphenyl	*2480*		*"*	*3330*		*74.4*	*32.4-102*			
Surrogate: 2,4,6-Tribromophenol	*2880*		*"*	*3330*		*86.4*	*18.1-105*			
Surrogate: Terphenyl-dl4	*3330*		*"*	*3330*		*100*	*29.1-130*			

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/08/18 16:57

Notes and Definitions

S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
R-07	Reporting limit for this compound(s) has been raised to account for dilution necessary due to high levels of interfering compound(s) and/or matrix affect.
QR-04	The pecent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

SunStar Laboratories
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 1 Of
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: TI80384 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-C	1-30-18	14:14	AQ	V	H															2
B-7-1.0		14:25	SO	V+GJ	X			X				X	X		X	X				7
B-7-5.0		14:50		V+SC																7
B-7-10.0		14:53			X			X				X	X		X					7
B-7-15.0		14:56																		7
B-7-20.0		14:59			X			X				X	X		X					7
B-7-25.0		15:04																		7
B-7-30.0		15:07																		7
B-9-1.0		16:30		V+GJ	X			X				X	X		X	X				7
B-9-5.0		16:40		V+SC																
B-9-10.0		16:43			X			X				X	X		X					
B-9-15.0		16:50																		
B-9-20.0		16:57			X			X				X	X		X					
B-9-25.0		17:05																		
B-9-30.0		17:08																		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold

Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172252

SunStar Laboratories

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager: Derrick Willis

Date: 1-30-2018 Page: 1 Of 1
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	8082 PCBs	8081 OCPs		Laboratory ID #	Comments/Preservative	Total # of containers
TB-2018.01.30-C	1-30-18	14:14	AQ	V	H															2
B-7-1.0		14:25	SO	V+GJ	X			X				X	X		X	X				7
B-7-5.0		14:50		V+SC																7
B-7-10.0		14:53			X			X				X	X		X					7
B-7-15.0		14:56																		7
B-7-20.0		14:59			X			X				X	X		X					7
B-7-25.0	↓	15:04	↓	↓																7
B-7-30.0	↓	15:07	↓	↓																7
B-9-1.0		16:30		V+GJ	X			X				X	X		X	X				7
B-9-5.0		16:40		V+SC																7
B-9-10.0		16:43			X			X				X	X		X					7
B-9-15.0		16:50																		7
B-9-20.0		16:57																		7
B-9-25.0		17:05			X			X				X	X		X					7
B-9-30.0	↓	17:08	↓	↓																7

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Dana Brown	1-31-18 14:20		1-31-18 14:20
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 100
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold:

Turn around time: 5-Day

Notes

Sample disposal Instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

COC 172252

SunStar 20 Years! Laboratories

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180384

Client Name: Northgate Project: 3rd & Fairfax

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: Chris Date/Time Courier Received: 1-31-18 14:20

Lab Received by: Sonny Date/Time Lab Received: 1-31-18 16:25

Total number of coolers received: 0

Temperature: Cooler #1	2.6 °C +/- the CF (- 0.2°C) =	2.4	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ Yes	☐ No
If NO:			
Samples received on ice?	☐ Yes	☐ No → **Complete Non-Conformance Sheet**	
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ No → **Complete Non-Conformance Sheet**	

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ Yes	☐ No*	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: JH 2-1-18

Comments:

Page 1 of 1

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180384

Client: **Northgate Environmental Management -- Laguna** **Project Manager:** **Rose Fasheh**
Project: **3rd & Fairfax** **Project Number:** **2047.15**

Report To:
Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 02/08/18 17:00 (5 day TAT)
Received By: Sunny Lounethone Date Received: 01/31/18 16:25
Logged In By: Joey Himes Date Logged In: 02/01/18 08:54

Samples Received at: **2.6°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T180384-01 TB-2018.01.30-C [Water] Sampled 01/30/18 14:14 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-02 B-7-1.0 [Soil] Sampled 01/30/18 14:25 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 14:25	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:25	
8081 Pesticides	02/08/18 15:00	5	02/13/18 14:25	
8082 PCB	02/08/18 15:00	5	02/13/18 14:25	
8260 5035	02/08/18 15:00	5	02/13/18 14:25	
8270C	02/08/18 15:00	5	02/13/18 14:25	
T180384-03 B-7-5.0 [Soil] Sampled 01/30/18 14:50 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-04 B-7-10.0 [Soil] Sampled 01/30/18 14:53 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 14:53	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:53	
8082 PCB	02/08/18 15:00	5	02/13/18 14:53	
8260 5035	02/08/18 15:00	5	02/13/18 14:53	
8270C	02/08/18 15:00	5	02/13/18 14:53	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180384

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180384-05 B-7-15.0 [Soil] Sampled 01/30/18 14:56 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-06 B-7-20.0 [Soil] Sampled 01/30/18 14:59 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 14:59	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 14:59	
8082 PCB	02/08/18 15:00	5	02/13/18 14:59	
8260 5035	02/08/18 15:00	5	02/13/18 14:59	
8270C	02/08/18 15:00	5	02/13/18 14:59	
T180384-07 B-7-25.0 [Soil] Sampled 01/30/18 15:04 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-08 B-7-30.0 [Soil] Sampled 01/30/18 15:07 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-09 B-9-1.0 [Soil] Sampled 01/30/18 16:30 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 16:30	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:30	
8081 Pesticides	02/08/18 15:00	5	02/13/18 16:30	
8082 PCB	02/08/18 15:00	5	02/13/18 16:30	
8260 5035	02/08/18 15:00	5	02/13/18 16:30	
8270C	02/08/18 15:00	5	02/13/18 16:30	
T180384-10 B-9-5.0 [Soil] Sampled 01/30/18 16:40 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-11 B-9-10.0 [Soil] Sampled 01/30/18 16:43 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 16:43	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:43	
8082 PCB	02/08/18 15:00	5	02/13/18 16:43	
8260 5035	02/08/18 15:00	5	02/13/18 16:43	
8270C	02/08/18 15:00	5	02/13/18 16:43	

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180384

Client: Northgate Environmental Management -- Laguna **Project Manager:** Rose Fasheh
Project: 3rd & Fairfax **Project Number:** 2047.15

Analysis	Due	TAT	Expires	Comments
T180384-12 B-9-15.0 [Soil] Sampled 01/30/18 16:50 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-13 B-9-20.0 [Soil] Sampled 01/30/18 16:57 (GMT-08:00) Pacific Time (US &				
6010 Title 22	02/08/18 15:00	5	07/29/18 16:57	
8015 Carbon Chain	02/08/18 15:00	5	02/13/18 16:57	
8082 PCB	02/08/18 15:00	5	02/13/18 16:57	
8260 5035	02/08/18 15:00	5	02/13/18 16:57	
8270C	02/08/18 15:00	5	02/13/18 16:57	
T180384-14 B-9-25.0 [Soil] Sampled 01/30/18 17:05 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				
T180384-15 B-9-30.0 [Soil] Sampled 01/30/18 17:08 (GMT-08:00) Pacific Time (US &				**HOLD**
[NO ANALYSES]				

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

Reviewed By Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

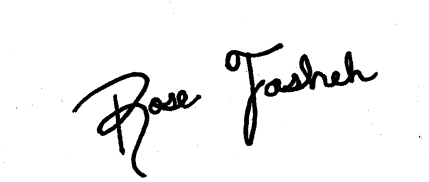
12 February 2018

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

RE: 3rd & Fairfax

Enclosed are the results of analyses for samples received by the laboratory on 02/01/18 12:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rose Fasheh
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-6-10.0	T180397-01	Air	01/31/18 15:06	02/01/18 12:35
B-15-25.0	T180397-02	Air	01/31/18 16:10	02/01/18 12:35
B-4-15.0	T180397-03	Air	01/31/18 16:38	02/01/18 12:35

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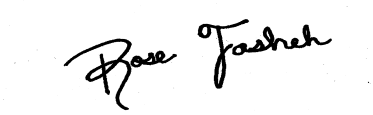

Rose Fasheh, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

DETECTIONS SUMMARY

Sample ID: B-6-10.0 **Laboratory ID:** T180397-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Isopropyl alcohol	**3100**	130	ug/m³ Air	TO-15	TO-14
Cyclohexane	**1100**	170	ug/m³ Air	TO-15	TO-14

Sample ID: B-15-25.0 **Laboratory ID:** T180397-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**770**	270	ug/m³ Air	TO-15	TO-14

Sample ID: B-4-15.0 **Laboratory ID:** T180397-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**17**	5.5	ug/m³ Air	TO-15	
Toluene	**15**	3.8	ug/m³ Air	TO-15	
C6-C12 (GRO)	**11600**	7170	ug/m³ Air	TO-3/TO-14 m	

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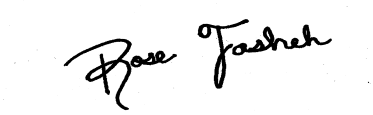

Rose Fasheh, Project Manager

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Providing Quality Analytical Services Nationwide

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-6-10.0

T180397-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	120	ug/m³ Air	1.71	8020144	02/01/18	02/01/18	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	**3100**	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	**1100**	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-6-10.0

T180397-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	180	ug/m³ Air	1.71	8020144	02/01/18	02/01/18	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	1.71	8020145	"	02/01/18	TO-3/TO-14 m	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

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Providing Quality Analytical Services Nationwide

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-15-25.0

T180397-02 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	120	ug/m³ Air	2.06	8020144	02/01/18	02/01/18	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-15-25.0

T180397-02 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	180	ug/m³ Air	2.06	8020144	02/01/18	02/01/18	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	**770**	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	2.06	8020145	"	02/01/18	TO-3/TO-14 m	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
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949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-4-15.0

T180397-03 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	12	ug/m³ Air	1.69	8020144	02/01/18	02/02/18	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

B-4-15.0

T180397-03 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	3.5	ug/m³ Air	1.69	8020144	02/01/18	02/02/18	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	**17**	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	**15**	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*40-160*		"	"	"	"	
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	**11600**	7170	ug/m³ Air	1.69	8020145	"	02/01/18	TO-3/TO-14 m	

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020144 - Canister Analysis										
Blank (8020144-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
Acetone	ND	12	ug/m³ Air							
1,3-Butadiene	ND	4.5	"							
Carbon Disulfide	ND	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"							
Isopropyl alcohol	ND	13	"							
Bromodichloromethane	ND	6.8	"							
Bromoform	ND	11	"							
Bromomethane	ND	4.0	"							
Carbon tetrachloride	ND	6.4	"							
Chlorobenzene	ND	4.7	"							
Chloroethane	ND	2.7	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	11	"							
Cyclohexane	ND	3.5	"							
Heptane	ND	4.2	"							
Hexane	ND	3.6	"							
Dibromochloromethane	ND	8.7	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,2-Dichlorobenzene	ND	6.1	"							
1,3-Dichlorobenzene	ND	6.1	"							
1,4-Dichlorobenzene	ND	6.1	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	4.1	"							
1,2-Dichloroethane	ND	4.1	"							
1,1-Dichloroethene	ND	4.0	"							
cis-1,2-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	4.0	"							
1,2-Dichloropropane	ND	4.7	"							
cis-1,3-Dichloropropene	ND	4.6	"							
trans-1,3-Dichloropropene	ND	4.6	"							
4-Ethyltoluene	ND	5.0	"							
Methylene chloride	ND	3.5	"							
Styrene	ND	4.3	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
Tetrahydrofuran	ND	3.0	"							

SunStar Laboratories, Inc.

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Rose Fasheh

Rose Fasheh, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020144 - Canister Analysis										
Blank (8020144-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
Tetrachloroethene	ND	6.9	ug/m³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
Surrogate: 4-Bromofluorobenzene	*33.6*		*"*	*45.3*		*74.2*	*40-160*			
Duplicate (8020144-DUP1)			**Source: T180354-01**	Prepared: 02/01/18 Analyzed: 02/02/18						
Acetone	ND	12	ug/m³ Air		ND				30	
1,3-Butadiene	ND	4.5	"		ND				30	
Carbon Disulfide	ND	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"		ND				30	
Isopropyl alcohol	ND	13	"		ND				30	
Bromodichloromethane	ND	6.8	"		ND				30	
Bromoform	ND	11	"		ND				30	
Bromomethane	ND	4.0	"		ND				30	
Carbon tetrachloride	ND	6.4	"		ND				30	
Chlorobenzene	ND	4.7	"		ND				30	
Chloroethane	ND	2.7	"		ND				30	
Chloroform	ND	5.0	"		ND				30	
Chloromethane	ND	11	"		ND				30	
Cyclohexane	ND	3.5	"		ND				30	
Heptane	ND	4.2	"		ND				30	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020144 - Canister Analysis										
Duplicate (8020144-DUP1)		**Source: T180354-01**		Prepared: 02/01/18 Analyzed: 02/02/18						
Hexane	ND	3.6	ug/m³ Air		ND				30	
Dibromochloromethane	ND	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	6.1	"		ND				30	
Dichlorodifluoromethane	ND	5.0	"		ND				30	
1,1-Dichloroethane	ND	4.1	"		ND				30	
1,2-Dichloroethane	ND	4.1	"		ND				30	
1,1-Dichloroethene	ND	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	4.0	"		ND				30	
1,2-Dichloropropane	ND	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	4.6	"		ND				30	
4-Ethyltoluene	ND	5.0	"		ND				30	
Methylene chloride	ND	3.5	"		ND				30	
Styrene	ND	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	7.0	"		ND				30	
Tetrahydrofuran	ND	3.0	"		ND				30	
Tetrachloroethene	110	6.9	"		111			1.04	30	
1,1,2-Trichloroethane	ND	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	5.6	"		ND				30	
Trichloroethene	13.0	5.5	"		13.4			3.13	30	
Trichlorofluoromethane	ND	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	5.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	5.0	"		ND				30	
Vinyl acetate	ND	3.6	"		ND				30	
Vinyl chloride	ND	2.6	"		ND				30	
1,4-Dioxane	ND	18	"		ND				30	
2-Butanone (MEK)	ND	15	"		ND				30	
Methyl isobutyl ketone	ND	42	"		ND				30	
Benzene	1.96	3.3	"		ND				30	
Toluene	9.49	3.8	"		10.1			6.49	30	
Ethylbenzene	2.60	4.4	"		2.67			2.53	30	
m,p-Xylene	6.14	8.8	"		6.40			4.26	30	

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Rose Fasheh, Project Manager

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Providing Quality Analytical Services Nationwide

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020144 - Canister Analysis										
Duplicate (8020144-DUP1)		**Source: T180354-01**		Prepared: 02/01/18 Analyzed: 02/02/18						
o-Xylene	4.20	4.4	ug/m³ Air		4.34			3.13	30	
Surrogate: 4-Bromofluorobenzene	*37.4*		*"*	*45.3*		*82.6*	*40-160*			

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020145 - Canister Analysis										
Blank (8020145-BLK1)				Prepared: 02/01/18 Analyzed: 02/02/18						
C6-C12 (GRO)	ND	7170	ug/m³ Air							
Duplicate (8020145-DUP1)		**Source: T180397-01**		Prepared: 02/01/18 Analyzed: 02/02/18						
C6-C12 (GRO)	ND	7170	ug/m³ Air		1930				30	

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Rose Fasheh

Rose Fasheh, Project Manager

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Northgate Environmental Management -- Laguna Hills	Project: 3rd & Fairfax	
24411 Ridge Route Drive, Suite 130	Project Number: 2047.15	**Reported:**
Laguna Hills CA, 92653	Project Manager: Derrick Willis	02/12/18 16:21

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Rose Fasheh

Rose Fasheh, Project Manager

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental
Address: 24411 Ridge Route #130, Laguna Hills
Phone: (949) 716-0050 Fax: (949) 716-0055
Project Manager:

Date: 1-31-2018 Page: 1 Of 1
Project Name: 3rd & Fairfax
Collector: Dana Brown Client Project #: 2047.15
Batch #: T180397 EDF #:

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type : Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD		Summa Can # / Comments	Laboratory ID #
B-6-10.0	1-31-18	15:06	15:12	SG	SC	-30	-5	A		A					SSAT-0869	01
B-15-25.0	1-31-18	16:10	16:22	SG	SC	-30	-8	A		A					SSAT-0347	02
B-4-15.0	1-31-18	16:38	16:53	SG	SC	-30	-6	A		A					SSAT-0280	03

DRS
1-31-18

Relinquished by: (signature) Dana Brown	Date / Time 2-1-18 11:33	Received by: (signature)	Date / Time 2/1/18 12:35
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 3
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA: 8
Received good condition/cold: —

Turn around time: Normal

Notes
SG = Soil Gas
SC = Summa Can

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 165437

SunStar Laboratories — Celebrating 20 Years!

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T180397

Client Name: NORTHGATE Project: 3rd & FAIRFAX

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRINN Date/Time Lab Received: 2/1/18 12:35

Total number of coolers received: 0

Temperature:	Cooler #1	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☐ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: BC 2/1/18

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

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Project Name: 3rd and Fairfax					KATHERINE
Company: Northgate					X
Name: Nicky					
Item		**Quantity**		**Unit**	
2 oz Jars 24/CS					
4 oz Jars 24/CS		15			
8 oz Jars 12/CS		45			
40 ml unpreserved VOAs 100/box		53(8-TP)			
40 ml HCL-preserved VOAs 72/box		90			
250 ml Poly 24/CS		15-HN03			
1 Liter Poly 12/CS					
500 ml Poly 16/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box		182			
	(1) Methanol VOA 72/box	91			
	(1)Syringe 50/pack	91			
Lock-N-Load Handle 1/pack					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
		# Sent	**Used**	**Unused**	**Unreturned**
Batch Certified Summa Canisters	400cc				
	1L	9(3-P)	3	3	0
	3L				
	6L				
Individually Certified Summa Canisters	400cc				
	1L				
	3L				
	6L				
ManifoldS: Inst. Sampler, Variable Sampler		5-(150) MANIFOLDS		CHARGE 3	
Swagelok Fittings: Nuts/Ferrules, Ts		5-NUTS/FERRULES		CHARGE 5	
Cooler (Sm, Med, Lrg) Number & Quantity		4-LRG			
Other: Poly Tube, Valves,Silicon Tape, etc.					
Prepared By: JH		Date: 1-25-18			
Reviewed By:		Date:			

SunStar Laboratories Inc.
25712 Commercentre Dr.
Lake Forest, CA 92630

(949)297-5020
(949)297-5027 fax
(530)304-5525 Bill Hannell

Form F-LP0005-1.2

Effective Date: 01/01/2017

* PLEASE DO ***NOT*** WRITE ON OR PLACE LABELS ON SUMMA CANS

SunStar Laboratories

Celebrating 20 years!

Canister Data Sheet

Client: NORTHGATE_NICKY_1-25-18_9+6

Shipping Information				Sampling Information					
Canister Serial #		CHECK Date	Pressure (-30 +/- 2 psia)	Sample ID	Sample Date	Initial Pressure	Final Pressure	Sample Start Time	Sample Finish Time
SSAT:	0347	1/25/2018	-30	~~B-6-10.0~~ DUP B-15-25.0	1-31-2018	-30	-8	16:10	16:22
SSAT:	0280	1/25/2018	-30	B-4-15.0	1-31-2018	-30	-6	16:38	16:53
SSAT:	0149	1/25/2018	-30						
SSAT:	0269	1/25/2018	-30						
SSAT:	0115	1/25/2018	-30						
SSAT:	0869	1/25/2018	-30	B-6-10.0	1-31-2018	-30	-5	15:06	15:12
SSAT:	2054	1/25/2018		(150) MANIFOLD					
SSAT:	2050	1/25/2018		(150) MANIFOLD					
SSAT:	2001	1/25/2018	USED	(150) MANIFOLD					
SSAT:	3034	1/25/2018	USED	(150) MANIFOLD					
SSAT:	2060	1/25/2018	USED	(150) MANIFOLD					
SSAT:	0109	1/25/2018		PURGE					
SSAT:	0189	1/25/2018		PURGE					
SSAT:	0641	1/25/2018		PURGE					

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 2/1/2018

User Name: Charon, Brian

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0109	1000cc: 1000cc Summa	0109	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0115	1000cc: 1000cc Summa	0115	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0149	1000cc: 1000cc Summa	0149	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0189	1000cc: 1000cc Summa	0189	Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway
0269	1000cc: 1000cc Summa	0269	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0280	1000cc: 1000cc Summa	0280	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0347	1000cc: 1000cc Summa	0347	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
0869	1000cc: 1000cc Summa	0869	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
2001	Vapor Manifold: Vapor Manifold	2001	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
2050	Vapor Manifold: Vapor Manifold	2050	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
2054	Vapor Manifold: Vapor Manifold	2054	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
2060	Vapor Manifold: Vapor Manifold	2060	Sunstar Labs, Lake Forest Air Lab	Northgate-Nicky	Nicky Galloway
3034	Vapor Manifold: Vapor Manifold	3034	Sunstar Labs, SunStar Labs - South	Northgate-Nicky	Nicky Galloway
641	1000cc: 1000cc Summa		Sunstar Labs, Tustin Air Lab	Northgate-Nicky	Nicky Galloway

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T180397

Client: **Northgate Environmental Management -- Laguna** **Project Manager:** **Rose Fasheh**
Project: **3rd & Fairfax** **Project Number:** **2047.15**

Report To:
Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 02/12/18 17:00 (7 day TAT)
Received By: Brian Charon Date Received: 02/01/18 12:35
Logged In By: Brian Charon Date Logged In: 02/01/18 12:43

Samples Received at:
Custody Seals No Received On Ice No
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T180397-01 B-6-10.0 [Air] Sampled 01/31/18 15:06 (GMT-08:00) Pacific Time (US &				
TO-15	02/12/18 15:00	7	03/02/18 15:06	
TO-3	02/12/18 15:00	7	03/02/18 15:06	
T180397-02 B-15-25.0 [Air] Sampled 01/31/18 16:10 (GMT-08:00) Pacific Time (US &				
TO-15	02/12/18 15:00	7	03/02/18 16:10	
TO-3	02/12/18 15:00	7	03/02/18 16:10	
T180397-03 B-4-15.0 [Air] Sampled 01/31/18 16:38 (GMT-08:00) Pacific Time (US &				
TO-15	02/12/18 15:00	7	03/02/18 16:38	
TO-3	02/12/18 15:00	7	03/02/18 16:38	

Reviewed By Date

Certificate of Analysis
PLM Asbestos Identification

tel - 714-899-8900
free - 888-743-0998
fax - 714-899-1188
PatriotLab.com
1041 S. Placentia Avenue, Fullerton, CA 92831

Environmental Laboratory Services, Inc.

Northgate Environmental
100 Quail St., Ste. #102
Newport Beach, CA 92660

Report Number: 699561
Project Number: 2047 15
Project Name: 3rd and Fairfax
Project Location:

Date Collected: 1/30/2018
Date Received: 2/1/2018
Date Analyzed: 2/7/2018
Date Reported: 2/7/2018

Collected By:
Claim Number:
PO Number:
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-001 B-5-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-002 B-14-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-003 B-1-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-004 B-2-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-005 B-6-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-006 B-11-1 0	NA	NA		
Total Asbestos	**None Detected**			

Certificate of Analysis
PLM Asbestos Identification

tel - 714-899-8900
free - 888-743-0998
fax - 714-899-1188
PatriotLab.com
1041 S. Placentia Avenue, Fullerton, CA 92831

Northgate Environmental
100 Quail St., Ste. #102
Newport Beach, CA 92660

Report Number: 699561
Project Number: 2047 15
Project Name: 3rd and Fairfax
Project Location:

Date Collected: 1/30/2018
Date Received: 2/1/2018
Date Analyzed: 2/7/2018
Date Reported: 2/7/2018

Collected By:
Claim Number:
PO Number:
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-007 B-13-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-008 B-3-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-009 B-7-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-010 B-9-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-011 B-8-1 0	NA	NA		
Total Asbestos	**None Detected**			
699561-012 B-12-1 0	NA	NA		
Total Asbestos	**None Detected**			

Certificate of Analysis
PLM Asbestos Identification

tel - 714-899-8900
free - 888-743-0998
fax - 714-899-1188
PatriotLab.com
1041 S. Placentia Avenue, Fullerton, CA 92831

Northgate Environmental
100 Quail St., Ste. #102
Newport Beach, CA 92660

Report Number: 699561
Project Number: 2047 15
Project Name: 3rd and Fairfax
Project Location:

Date Collected: 1/30/2018
Date Received: 2/1/2018
Date Analyzed: 2/7/2018
Date Reported: 2/7/2018

Collected By:
Claim Number:
PO Number:
Number of Samples: 15

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
699561-013	NA	NA		
B-4-1 0				
Total Asbestos	**None Detected**			
699561-014	NA	NA		
B-15-1 0				
Total Asbestos	**None Detected**			
699561-015	NA	NA		
B-10-1 0				
Total Asbestos	**None Detected**			

Raul Lanuza - Analyst

Kwin Legaspi - Approved By

Bulk sample(s) submitted was (were) analyzed in accordance with the procedure outlined in the US Federal Register 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 (Method for Determination of Asbestos in Building Materials), and EPA-600/M4-82-020 (US EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples).Samples were analyzed using Calibrated Visual Estimations (CVES); therefore, results may not be reliable for samples of low asbestos concentration levels. Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite unless specifically requested by the customer to report analytical results for individual layers. This report applies only to the items tested. Results are representative of the samples submitted and may not represent the entire material from which the samples were collected. "None Detected" means that no asbestos was observed in the sample. "<1%" (less than one percent) means that asbestos was observed in the sample but the concentration is below the quantifiable level of 1%. This report was issued by a NIST/NVLAP (Lab Code 200358-0) and CADOHS- ELAP (Cert. No. 2540) accredited laboratory and may not be reproduced, except in full without the expressed written consent of Patriot Environmental Laboratory Services, Inc. This report may not be used to claim product certification, approval or endorsement by NIST, NVLAP, ELAP or any government agency.

REPORT OF METHANE SOIL GAS INVESTIGATION
PROPOSED REDEVELOPMENT

370 S. FAIRFAX AVE., 6300-6370 W. 3RD ST & 347 S. OGDEN DRIVE., LOS ANGELES, CA

Prepared for:

WACTOR & WICK LLP

Los Angeles, California

TERRA-PETRA ENVIRONMENTAL ENGINEERING
700 S Flower Street, Suite 2580
Los Angeles, California

January 31, 2019

January 31, 2019

Anna L. Nguyen
Wactor & Wick LLP,
Environmental Attorneys
3640 Grand Ave, Suite 200
Oakland, CA 94610
Tel : (415) 264-4170
Email: anguyen@ww-envlaw.com

Subject: **Report of Methane Soil Gas Testing**
Proposed Redevelopment
370 S. Fairfax Ave., 6300-6370 W. 3rd St and 347 S. Ogden Dr.,
Los Angeles, CA 90036
Tract: TR 215 Block: None Lot(s): PT 12

Terra-Petra is pleased to submit this report to summarize the methane soil gas investigation services conducted at the subject site referenced above. The purpose of this investigation was to determine the methane soil gas mitigation requirements in connection with the proposed redevelopment. The project site has been determined to be located within a City of Los Angeles designated Methane Zone. (See **Exhibit 1, Site Location Map**).

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by qualified, reputable environmental consultants and professional firms performing similar services and practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice included in this report. This report has been prepared for Wactor & Wick LLP, its clients and any pertinent consultants to be used solely for the design of the proposed project and compliance with CEQA requirements of the lead agency. This report has not been prepared for use by other parties, and may not contain sufficient information for purposes of other parties or other uses.

PROJECT SUMMARY

The Project Site is currently improved with an approximately 214,736 square-foot retail center known as the Town and Country Shopping Center, located on an approximately 327,121 square-foot site. The Proposed Project includes the partial demolition of an existing surface parking lot and commercial buildings, for up to 151,048 square feet of existing

commercial floor area to be demolished (with 63,688 square feet of existing commercial floor area to remain); and the construction of a new mixed-use building containing 331 multi-family residential apartment dwelling units, for approximately 343,000 square feet of new residential floor area, and up to approximately 83,994 square feet of new commercial floor area, all located on the eastern portion of the Project Site.

Existing buildings on the western portion of the Project Site are to remain and are not considered part of the Proposed Project. In totality, all improvements on the Project Site (including the existing buildings to remain and the new buildings proposed) will comply with the applicable Floor Area Ratio (FAR) of 1.5 to 1.

The Proposed Project will consist of a mid-rise, eight-story structure and two levels of subterranean parking, for a maximum height of approximately 100 feet. The residential component will consist of 70 studio units, 162 one-bedroom units, 66 two-bedroom units, and 33 three-bedroom units. The Project Site would provide a maximum of 1,156 automobile parking spaces, comprised of 982 new spaces within the mixed-use building as part of the Proposed Project, and 174 spaces within the existing surface parking lot to remain. Short- and long-term bicycle parking will be provided pursuant to the Los Angeles Municipal Code (LAMC). Vehicular access to the Project Site will be provided via four driveways, which include two new driveways (one residential and one commercial) with access to the parking areas for the new mixed-use building along South Ogden Drive, and two existing driveways along South Fairfax Avenue and West 3rd Street with access to the surface parking lot.

Terra-Petra was contacted to perform a methane soil gas investigation at the above mentioned project site under our LADBS Testing License #10224. Based on the Division of Oil, Gas and Geothermal Resources (DOGGR) records and the Munger Map Book (1987), one plugged and abandoned oil well is present on the property. The well is identified as Salt Lake 99 (API number 037-15229), Lease Salt Lake Well #99 County Los Angeles [037] District 1 Operator Chevron U.S.A. Inc. Well Status: Plugged & Abandoned September 20, 1930. Based on the proximity of this oil well and the location of the site within a previously existing oil well field, the project is expected to be highly susceptible to methane gas intrusion. The investigation was designed to detect the presence of any elevated levels of methane gas in the in-situ soils underlying the foundations of the existing buildings.

SOIL GAS PROBE INSTALLATION & TESTING

The methane soil gas testing at the site was performed based on the procedures conforming to the Los Angeles Department of Building and Safety (LADBS) Information Bulletin Ref. No. 91.71404.1, P/BC 2002-101. City guidelines require that one shallow-depth probe be installed for every 10,000 square feet of site area where the highest concentration of soil gas is most likely to be found, with a minimum of two shallow gas probes regardless of the total area of the site. A total of fifteen (15) shallow probe locations were selected based on the site testing area of 141,818 sq. ft. (See **Exhibit 2, Probe Locations Map**). Predicated on the soil gas testing results at the shallow probes, an additional eight (8) deep gas probe locations were selected for a total of twenty-three (23) sampling points.

On 7/17/18 the shallow and deep borings were drilled using a truck-mounted GeoProbe 5410 direct-push drill rig. Shallow borings were drilled to a depth of 4 feet bsg, with soil gas probes installed at approximately 4 feet. Typically, deep methane probes are required to be installed 20 ft. below the lowest proposed building foundation. However, when groundwater is encountered, the deepest probes must be set a minimum of 12" above the groundwater table to prevent probe flooding. Based on a review of the Krazan & Associates, Inc. Preliminary Summary of Findings Geotechnical Letter dated June 19, 2017, *"Groundwater was encountered at a depth of approximately 18 feet below site grades during drilling activities. Based on a review of the Seismic Hazard Evaluation Report for the area, historic high groundwater depths for the vicinity of the subject site are estimated to be at depths on the order of 15 feet below ground surface."* As such, each of the deep borings was drilled to a maximum depth of 15 ft to avoid groundwater. Nested soil gas probes were installed in each deep boring at depths of 5 ft, 10 ft and 15 ft. Soil gas probes were constructed as shown in **Exhibit 3, Probe Construction Diagrams**.

The current investigation was performed in accordance with the LADBS standards. Soil gas samples were collected during three rounds of monitoring on 7/17/18, 7/18/18 and 7/19/18 from the gas probes. Each sampling period from the deep gas probes was separated by a time period of approximately 24 hours. As required by the LADBS standards, all probes were monitored for detectable combustible gas and soil gas pressures using a calibrated CES/Landtec GEM 5000 portable 4-gas detector with a lower limit for reporting methane levels of 1,000 ppmv (parts per million by volume).

TEST RESULTS

Methane soil gas was detected in all shallow and deep probes with the exception of Shallow Probe #4. Methane concentrations ranged from 3,000 ppmv to 895,000 ppmv, with the highest measurement recorded in Deep Probe #4. The full results of the soil gas testing measurements were recorded in a City Of Los Angeles approved format as presented in the attached **Exhibit 5, Form 1 – Certificate of Compliance for Methane Test Data**.

CONCLUSIONS

Methane gas is combustible with a lower explosive limit (LEL) of approximately 5%,v/v (percent volume) in air. In structures, methane concentrations above 25% of the LEL (above 1.25%, v/v) are considered to be regulatory action levels above which gas concentrations must be mitigated. For buildings to be constructed in a methane zone, the City of Los Angeles Department of Building and Safety considers even non-detectable readings of methane soil gas concentrations (0.0%,v/v) to be the action level at which soil gas concentrations must be mitigated. Thus, methane mitigation is mandatory for any new construction in the methane zone.

Based on the historic ground water table, the elevated methane readings produced on site, and the LADBS action levels presented above, the site is deemed a **Methane Zone – Level V, All Pressures**. As such, we would typically recommend that the mitigation system incorporate all components listed for a Design Level V on the attached **Table 1A**, including: an impervious membrane, dewatering system, perforated horizontal vent pipe system, 4-inch gravel thickness beneath the membrane, vent risers, and mechanical gas extraction (blowers), and a gas detection/alarm system and mechanical ventilation system shall in the lowest occupied level of the building.

Given the historic shallow groundwater conditions at the site, in lieu of the above-mentioned dewatering system and vent pipe system, a "V-Bottom" foundation with a minimum 1% slope towards the building perimeter which is designed to withstand hydrostatic pressures would generally be acceptable to the LADBS. The "V-Bottom" foundation Level V mitigation design shall include all of the following elements to be in compliance with the LADBS:

- Areas with a Mat Foundation will be fitted with an impermeable methane barrier membrane.
- The bottom side of the foundation slab will have a 1% "V" Bottom slope to serve as the pressure relief venting system.
- A minimum 4" thick aggregate layer will be placed beneath the slab to assist in conveying methane gas from beneath the structure.
- An impermeable methane gas/waterproofing/tar barrier will be installed at all below grade walls.
- If an Oil Well is located on the property beneath a new building, it will be fitted with a Vent Cone and Venting System as required by the State of California Division of Oil and Gas.
- Electrical & communications conduit seals that prevent methane gas intrusion will be installed at all dry utility conduits.
- Utility trench dams that prevent methane gas intrusion will be installed at the exterior sides of the building.
- Gas Detection Systems will be installed throughout the lowest level parking garage in the buildings which will continuously monitor the interior space for methane gas and will be capable of activating the building's ventilation system and contacting a central alarm service if methane is detected.

Implementation of the proposed mitigation measures will reduce or eliminate any potential effects of the detected methane concentrations at the Site to the public and the environment. Specifically, the proposed project will not emit hazardous emissions or cause the releases of hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school.

The California Code of Regulations defines a "hazardous material" as a substance, material, or mixture which by reason of being explosive, flammable, poisonous, corrosive, oxidizing, an irritant, or otherwise harmful, is likely to cause injury or illness. Hazardous substance includes a hazardous chemical as defined in section 5194(c) and hazardous waste as defined in section 5192(a)(3). Additional definitions for hazardous substances are found in sections 5194(c), for Hazard Communication purposes only, and 5192(a)(3), for Hazardous Waste Operations purposes only.

The Federal Department of Transportation (DOT) defines "hazardous material" and "hazardous substance as follows:

Hazardous material means a substance or material that the Secretary of Transportation has determined is capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and has designated as hazardous under section 5103 of Federal hazardous materials transportation law (49 U.S.C. 5103). The term includes hazardous substances, hazardous wastes, marine pollutants, elevated temperature

materials, materials designated as hazardous in the Hazardous Materials Table (see 49 CFR 172.101), and materials that meet the defining criteria for hazard classes and divisions in part 173 of this subchapter.

Hazardous substance for the purposes of this subchapter, means a material, including its mixtures and solutions, that—
(1) Is listed in the appendix A to §172.101 of this subchapter;
(2) Is in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) listed in the appendix A to §172.101 of this subchapter; and
(3) When in a mixture or solution—
(i) For radionuclides, conforms to paragraph 7 of the appendix A to §172.101.
(ii) For other than radionuclides, is in a concentration by weight which equals or exceeds the concentration corresponding to the RQ of the material, as shown in the following table:

	Concentration by Weight	
RQ pounds (kilograms)	**Percent**	**PPM**
5000 (2270)	10	100,000
1000 (454)	2	20,000
100 (45.4)	0.2	2,000
10 (4.54)	0.02	200
1 (0.454)	0.002	20

The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance in Appendix A to §172.101 of this subchapter, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). It should be noted that methane is not listed on the list of hazardous substances in Appendix A to the §172.101.

To further support the conclusions that the on-site methane concentrations will not generate hazardous conditions during any phase of the project, the following facts about methane gas relevant to site excavation and development are provided:

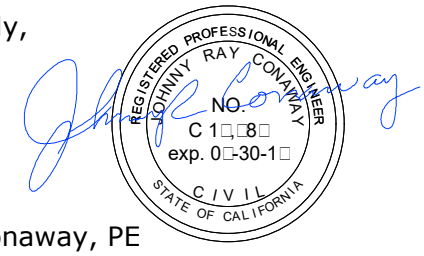
- Methane gas is naturally occurring and widespread in the Los Angeles Basin, colorless (even when it burns), tasteless and odorless.
- In its natural state in soil, methane gas is not combustible, explosive or flammable. Methane gas does not combust below 5% concentration, for there is too little fuel. It does not combust in concentrations over 15% because there is too little oxygen. Methane can accumulate to these concentrations only inside enclosed spaces such as buildings. Excavation of soil containing natural concentrations of methane below the 5% concentration threshold are non-combustible, non-explosive and non-flammable. Excavation of such soil doesn't create a public safety hazard.
- For methane gas to combust, it must not only be in concentrations of 5 to 15 percent, but there must also be an ignition source of 1,000° F. or more.

- Because methane is lighter than air, it tends to move upward, and diffuses rapidly in the atmosphere. The South Coast Air Quality Management District which closely regulates the emission of air contaminants in the Los Angeles area does not regulate methane emissions from construction sites.
- Methane is non-corrosive. It is non-toxic. It is non-carcinogenic.
- Methane gas does not manufacture more methane gas. Concentrations can never exceed those intruding into an occupied space from the soil; they can only be depleted via atmospheric diffusion.
- During the demolition process the existing buildings will be deconstructed in a manner that would support safe conditions at the site. The removal of existing roofs and walls will allow enclosed spaces to naturally ventilate to the atmosphere. This process eliminates the potential for a methane explosion.
- The site redevelopment will not create or exacerbate a methane gas emission or combustion hazard. Additionally the in-building methane mitigation measures required by the City will protect building users from any methane gas underlying the development.

In conclusion, the proposed site development will not create or exacerbate a significant hazard through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment during construction and once the recommended Methane Zone Level V system is in place.

I am a registered California civil engineer with experience in methane gas mitigation systems. Should you have any questions regarding this report, please contact Justin Conaway at 213-458-0494. We appreciate the opportunity to assist you with your project.

Sincerely,

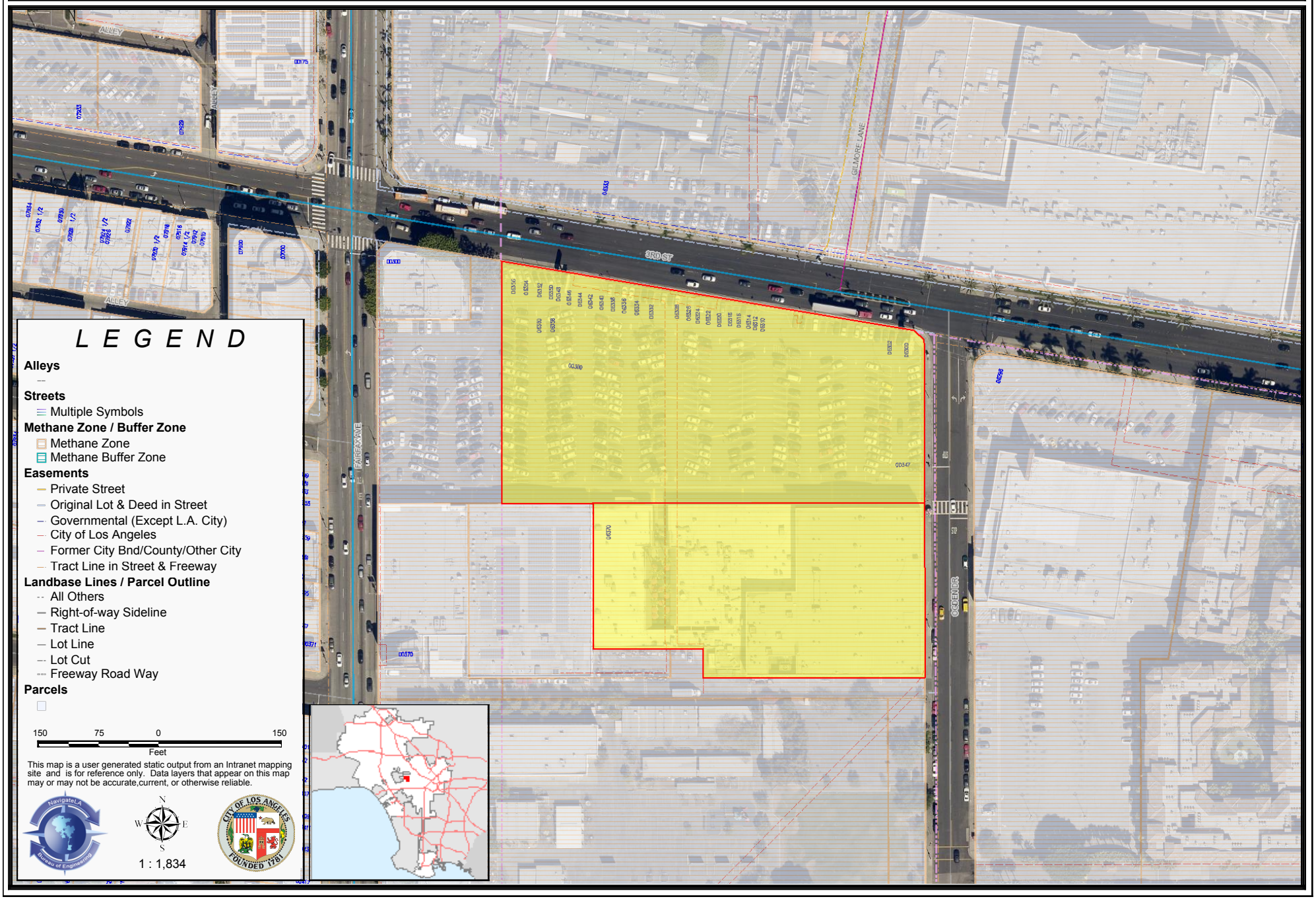


John Conaway, PE
Terra-Petra
LADBS License #10224

Attachments
Exhibit 1: Site Location Map
Exhibit 2: Probe Locations Map
Exhibit 3: Probe Construction Diagrams
Exhibit 4: Field Data Sheets
Exhibit 5: Form 1 – Certificate of Compliance for Methane Test Data

Exhibit 1:
Site Location Map

NavigateLA Map



L E G E N D

Alleys
- --

Streets
- Multiple Symbols

Methane Zone / Buffer Zone
- Methane Zone
- Methane Buffer Zone

Easements
- Private Street
- Original Lot & Deed in Street
- Governmental (Except L.A. City)
- City of Los Angeles
- Former City Bnd/County/Other City
- Tract Line in Street & Freeway

Landbase Lines / Parcel Outline
- All Others
- Right-of-way Sideline
- Tract Line
- Lot Line
- Lot Cut
- Freeway Road Way

Parcels

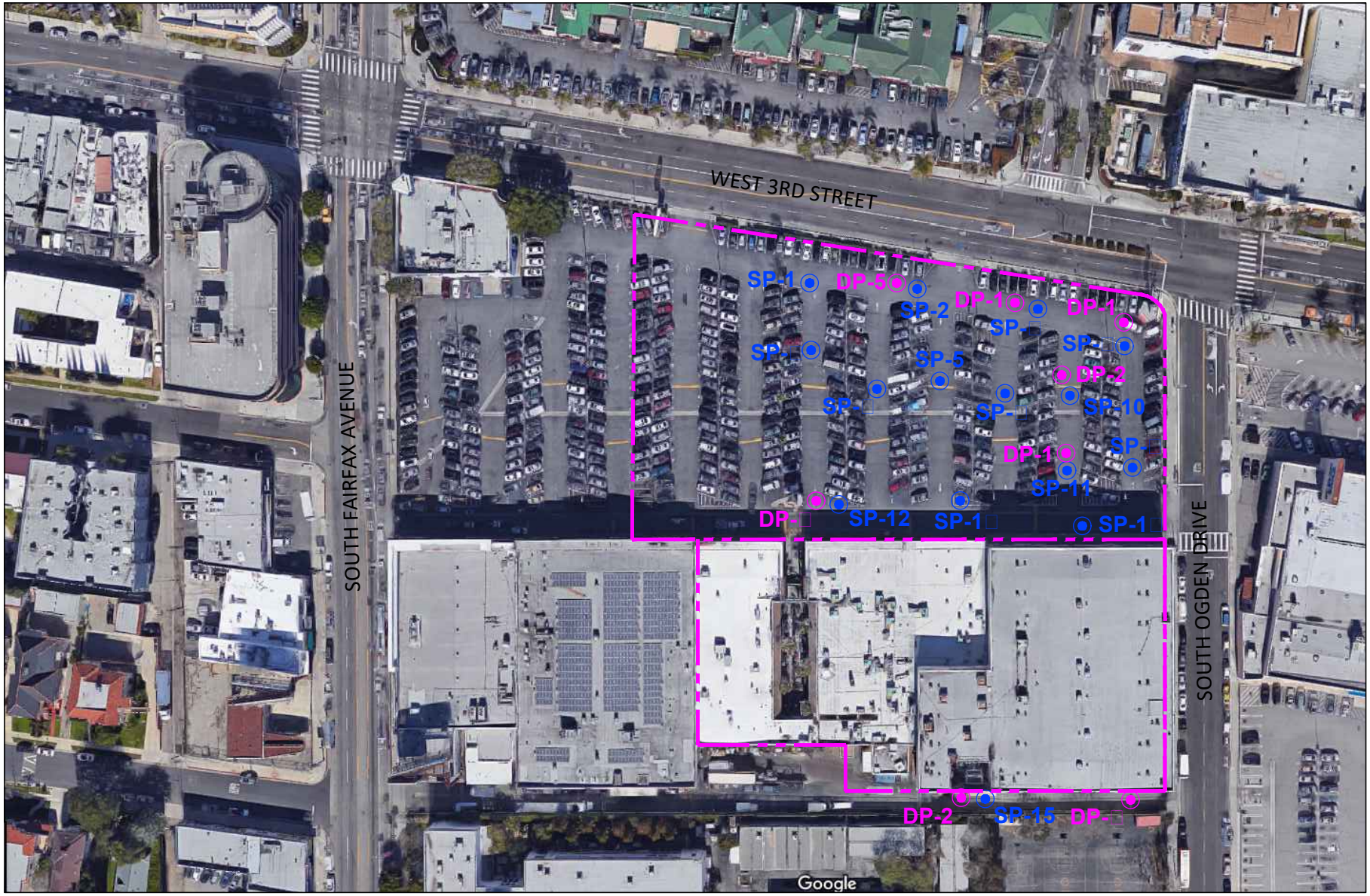
150 75 0 150
Feet

This map is a user generated static output from an Intranet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate,current, or otherwise reliable.

N W E S

1 : 1,834

Exhibit 2:
Probe Locations Map



LEGEND

SP-1 — SHALLOW PROBE LOCATION

DP- — DEEP PROBE LOCATION

SITE LIMITS

6300 3RD STREET
LOS ANGELES CA 90036

0 10 25

SCALE: 1" = 25

EXHIBIT: 2

TITLE: PROBE LOCATIONS

DRAWN BY: RICHARD McCLANAHAN

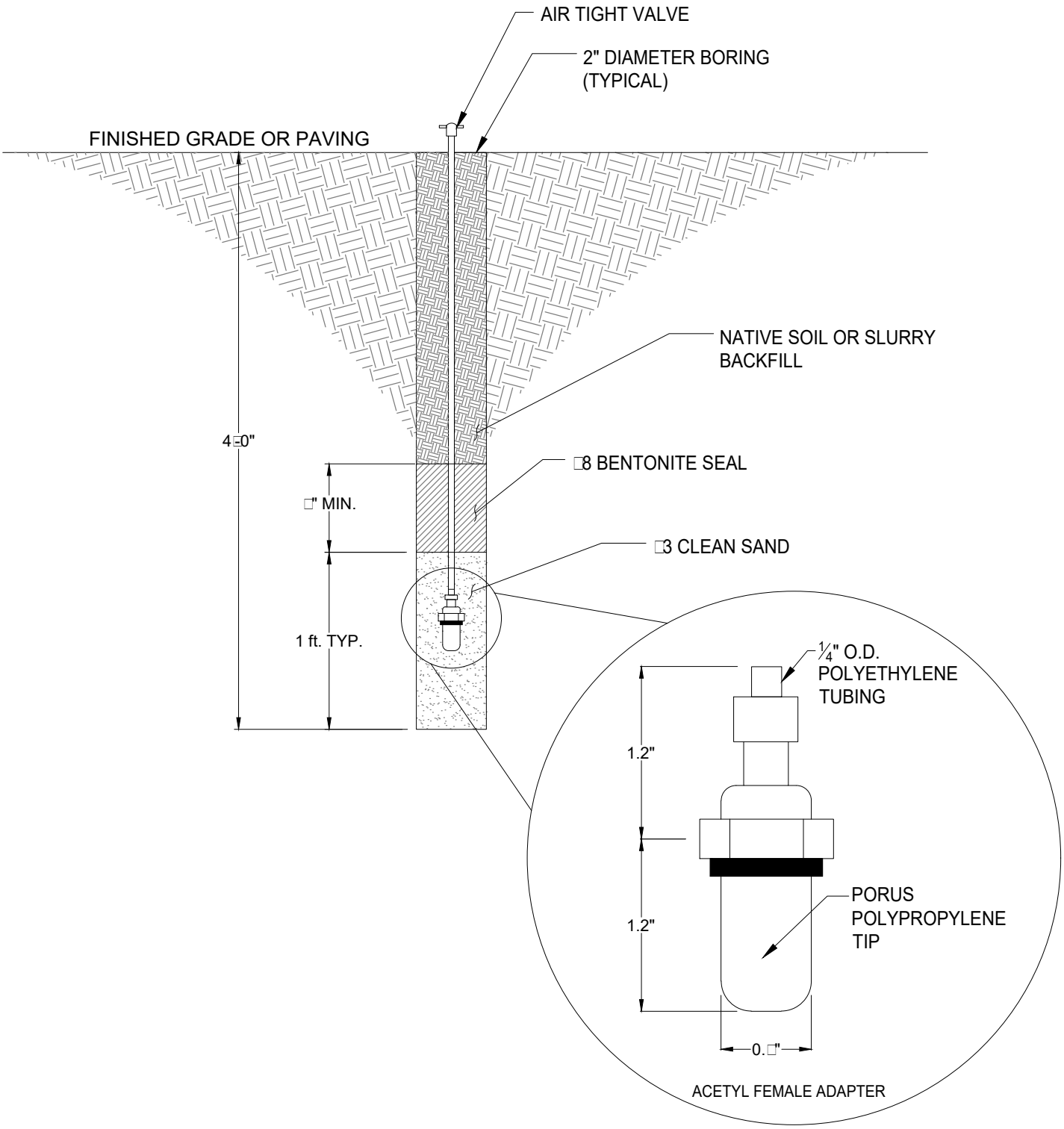
DATE: JULY 20, 2018

CHECKED BY:

ADDRESS: 6300 3RD STREET
LOS ANGELES CA 90036

Terra-Petra
WATERPROOFING DIVISION
700 S. Flower St., Ste. 2580, Los Angeles, CA 90017 213.458.0494
Los Angeles (HQ) · San Francisco · New York · Denver · Tacoma

Exhibit 3:
Probe Construction Diagrams



Terra-Petra
ENVIRONMENTAL ENGINEERING
700 S. Flower St., Ste. 2580, Los Angeles, CA 90017 213.458.0494
Los Angeles (HQ) . San Francisco . New York . Denver . Tacoma

ADDRESS:
6300 3RD STREET
LOS ANGELES CA 90036

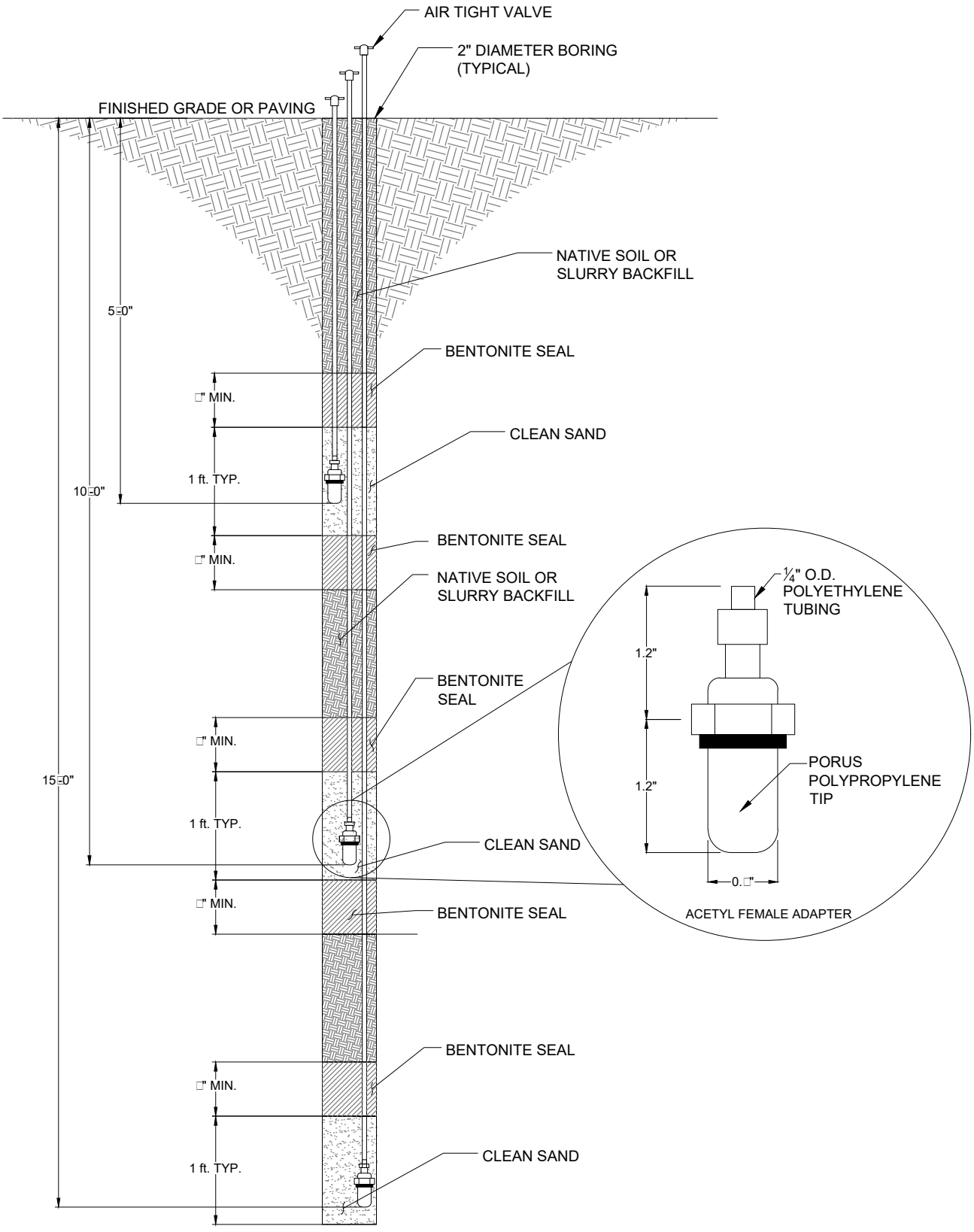
TITLE: CONSTRUCTION DIAGRAM FOR SHALLOW PROBE AT 4□

DRAWN BY: R. McCLANAHAN

CHECKED BY:

DATE: JULY 31, 2018

SHEET: 3



Terra-Petra
ENVIRONMENTAL ENGINEERING
700 S. Flower St., Ste. 2580, Los Angeles, CA 90017 213.458.0494
Los Angeles (HQ) . San Francisco . New York . Denver . Tacoma

ADDRESS:
6300 3RD STREET
LOS ANGELES CA 90036

TITLE: CONSTRUCTION DIAGRAM FOR DEEP PROBE AT 5□,10□AND 15□

DRAWN BY: R. McCLANAHAN

CHECKED BY:

DATE: JULY 20, 2018

SHEET: 3

Exhibit 4:
Field Data Sheets

Soil Gas Investigation Spreadsheet

Site Location:		**6300 W. 3rd St., Los Angeles, CA.**								
Date:		**7/17/18**								
Time:		**2200hr.**								
Weather conditions:		**Clear, cool, still, dry.**								
Instrument:		**Landtec GEM 5000 portable 4-gas detector (I/R for methane).**								
Barometric Pressure:		**29.78-in. Hg**								
Drilling Method:		**Truck-mounted GeoProbe 5410 direct-push drill rig.**								
		Probe Press.	**Methane***		**CO_2**	**O_2**	**N_2**			
Probe No.	**Depth**	**(in-H20)**	**(%v/v)**		**(%v/v)**	**(%v/v)**	**(%v/v)**	**Comments:**		
SP-1	**4.0**	**0.01**	**0.3**		**12.7**	**2.7**	**Bal.**			
SP-2	**4.0**	**0.00**	**10.3**		**7.1**	**9.9**	**Bal.**			
SP-3	**4.0**	**0.00**	**85.5**		**6.6**	**7.4**	**Bal.**			
SP-4	**4.0**									
SP-5	**4.0**									
SP-6	**4.0**	**0.04**	**47.2**		**8.1**	**2.9**	**Bal.**			
SP-7	**4.0**									
SP-8	**4.0**									
SP-9	**4.0**	**0.06**	**2.0**		**2.4**	**15.1**	**Bal.**			
SP-10	**4.0**									
SP-11	**4.0**									
SP-12	**4.0**	**0.01**	**10.5**		**4.9**	**8.5**	**Bal.**			
SP-13	**4.0**	**0.00**	**6.4**		**2.8**	**7.6**	**Bal.**			
SP-14	**4.0**	**0.02**	**27.1**		**4.9**	**11.3**	**Bal.**			
SP-15	**4.0**									
DP-1	**5.0**									
	10.0									
	15.0									
DP-2	**5.0**									
	10.0									
	15.0									
(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)										

Soil Gas Investigation Spreadsheet

Probe No.	Depth	Probe Press. (in-H20)	Methane* (%v/v)		CO_2 (%v/v)	O_2 (%v/v)	N_2 (%v/v)	Comments:		
DP-3	5.0									
	10.0									
	15.0									
DP-4	5.0									
	10.0									
	15.0									
DP-5	5.0									
	10.0									
	15.0									
DP-6	5.0									
	10.0									
	15.0									
DP-7	5.0									
	10.0									
	15.0									
DP-8	5.0									
	10.0									
	15.0									
(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)										

Soil Gas Investigation Spreadsheet

Site Location:		**6300 W. 3rd St., Los Angeles, CA.**								
Date:		**7/18/18**								
Time:		**2200hr.**								
Weather conditions:		**Clear, cool, still, dry.**								
Instrument:		**Landtec GEM 5000 portable 4-gas detector (I/R for methane), RKI Eagle 4-gas detector.**								
Barometric Pressure:		**29.84-in. Hg**								
Drilling Method:		**Truck-mounted GeoProbe 5410 direct-push drill rig.**								
		Probe Press.	**Methane***	**H_2S**	**CO_2**	**O_2**	**N_2**			
Probe No.	**Depth**	**(in-H20)**	**(%v/v)**	**(ppmv)**	**(%v/v)**	**(%v/v)**	**(%v/v)**	**Comments:**		
SP-1	**4.0**							**Done.**		
SP-2	**4.0**							**Done.**		
SP-3	**4.0**							**Done.**		
SP-4	**4.0**	**0.01**	**ND**	**ND**	**1.2**	**18.0**	**Bal.**			
SP-5	**4.0**	**0.03**	**0.6**	**ND**	**6.7**	**6.7**	**Bal.**			
SP-6	**4.0**							**Done.**		
SP-7	**4.0**	**0.01**	**ND**	**ND**	**1.7**	**16.2**	**Bal.**			
SP-8	**4.0**	**0.02**	**0.6**	**ND**	**6.8**	**8.3**	**Bal.**			
SP-9	**4.0**							**Done.**		
SP-10	**4.0**	**0.03**	**60.9**	**ND**	**6.6**	**4.7**	**Bal.**			
SP-11	**4.0**	**0.02**	**29.6**	**ND**	**11.8**	**3.3**	**Bal.**			
SP-12	**4.0**							**Done.**		
SP-13	**4.0**							**Done.**		
SP-14	**4.0**							**Done.**		
SP-15	**4.0**	**0.01**	**76.6**	**ND**	**3.9**	**8.9**	**Bal.**			
DP-1	**5.0**	**0.00**	**21.9**	**ND**	**1.2**	**2.7**	**Bal.**			
	10.0	**0.01**	**30.6**	**ND**	**4.7**	**6.7**	**Bal.**			
	15.0	**0.01**	**27.6**	**ND**	**2.4**	**0.2**	**Bal.**			
DP-2	**5.0**	**0.04**	**51.2**	**ND**	**3.3**	**4.5**	**Bal.**			
	10.0	**0.03**	**82.9**	**ND**	**7.8**	**0.0**	**Bal.**			
	15.0	**0.07**	**74.9**	**ND**	**2.2**	**0.0**	**Bal.**			
(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)										

Soil Gas Investigation Spreadsheet

Probe No.	Depth	Probe Press. (in-H20)	Methane* (%v/v)	H_2S (ppmv)	CO_2 (%v/v)	O_2 (%v/v)	N_2 (%v/v)	Comments:
DP-3	5.0	0.05	20.7	ND	1.6	5.4	Bal.	
	10.0	0.02	28.3	ND	5.5	0.4	Bal.	
	15.0	0.02	26.7	ND	2.6	0.3	Bal.	
DP-4	5.0	0.01	82.3	ND	5.2	1.8	Bal.	
	10.0	0.04	54.1	ND	3.0	1.5	Bal.	
	15.0	0.02	66.4	ND	6.1	0.3	Bal.	
DP-5	5.0	0.00	20.1	ND	4.6	5.9	Bal.	
	10.0	0.10	19.7	ND	2.7	4.4	Bal.	
	15.0	0.02	28.6	ND	5.3	3.0	Bal.	
DP-6	5.0	0.04	2.6	ND	0.7	16.8	Bal.	
	10.0	0.02	15.3	ND	4.0	1.0	Bal.	
	15.0	0.00	18.2	ND	8.2	0.2	Bal.	
DP-7	5.0	0.00	7.4	ND	0.8	16.6	Bal.	
	10.0	0.00	21.6	ND	1.4	13.3	Bal.	
	15.0	0.00	27.6	ND	3.5	12.1	Bal.	
DP-8	5.0	0.02	4.2	ND	2.7	15.1	Bal.	
	10.0	0.03	10.6	ND	5.7	10.1	Bal.	
	15.0	0.01	18	ND	12.6	6.1	Bal.	

(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)

Soil Gas Investigation Spreadsheet

Site Location:		**6300 W. 3rd St., Los Angeles, CA.**								
Date:		**7/19/18**								
Time:		**2200hr.**								
Weather conditions:		**Clear, cool, still, dry.**								
Instrument:		**Landtec GEM 5000 portable 4-gas detector (I/R for methane), RKI Eagle 4-gas detector.**								
Barometric Pressure:		**29.84-in. Hg**								
Drilling Method:		**Truck-mounted GeoProbe 5410 direct-push drill rig.**								
		Probe Press.	**Methane***	**H_2S**	**CO_2**	**O_2**	**N_2**			
Probe No.	**Depth**	**(in-H20)**	**(%v/v)**	**(ppmv)**	**(%v/v)**	**(%v/v)**	**(%v/v)**	**Comments:**		
SP-1	**4.0**							**Done.**		
SP-2	**4.0**							**Done.**		
SP-3	**4.0**							**Done.**		
SP-4	**4.0**							**Done.**		
SP-5	**4.0**							**Done.**		
SP-6	**4.0**							**Done.**		
SP-7	**4.0**							**Done.**		
SP-8	**4.0**							**Done.**		
SP-9	**4.0**							**Done.**		
SP-10	**4.0**							**Done.**		
SP-11	**4.0**							**Done.**		
SP-12	**4.0**							**Done.**		
SP-13	**4.0**							**Done.**		
SP-14	**4.0**							**Done.**		
SP-15	**4.0**							**Done.**		
DP-1	**5.0**	**0.02**	**25.3**	**ND**	**4.9**	**1.9**	**Bal.**			
	10.0	**0.00**	**26.1**	**ND**	**6.9**	**1.7**	**Bal.**			
	15.0	**0.00**	**28.9**	**ND**	**6.6**	**1.2**	**Bal.**			
DP-2	**5.0**	**0.01**	**59.7**	**ND**	**6.9**	**4.7**	**Bal.**			
	10.0	**0.00**	**63.6**	**ND**	**8.0**	**2.4**	**Bal.**			
	15.0	**0.00**	**72.6**	**ND**	**6.5**	**1.2**	**Bal.**			
(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)										

Soil Gas Investigation Spreadsheet

Probe No.	Depth	Probe Press. (in-H20)	Methane* (%v/v)	H_2S (ppmv)	CO_2 (%v/v)	O_2 (%v/v)	N_2 (%v/v)	Comments:
DP-3	5.0	0.01	31.5	ND	7.5	1.7	Bal.	
	10.0	0.02	28.1	ND	8.0	1.0	Bal.	
	15.0	0.01	28.2	ND	7.5	0.6	Bal.	
DP-4	5.0	0.00	52.2	ND	3.7	5.2	Bal.	
	10.0	0.02	89.5	ND	11.4	0.1	Bal.	
	15.0	0.01	47.3	ND	4.9	4.8	Bal.	
DP-5	5.0	0.00	21.7	ND	5.9	4.0	Bal.	
	10.0	0.03	15.3	ND	4.8	3.6	Bal.	
	15.0	0.04	30.9	ND	10.7	1.7	Bal.	
DP-6	5.0	0.01	7.0	ND	3.2	6.8	Bal.	
	10.0	0.00	16.6	ND	6.7	1.0	Bal.	
	15.0	0.01	16.0	ND	7.9	0.5	Bal.	
DP-7	5.0	0.01	47.9	ND	6.8	8.6	Bal.	
	10.0	0.04	0.6	ND	2.3	15.2	Bal.	
	15.0	0.01	0.6	ND	3.0	14.8	Bal.	
DP-8	5.0	0.00	21.8	ND	21.9	0.1	Bal.	
	10.0	0.00	11.5	ND	13.7	5.6	Bal.	
	15.0	0.00	1.6	ND	6.2	15.1	Bal.	

(Note: ND = Not Detected. All gas quality measurements taken with in-line carbon filter.)

Exhibit 5:
Form 01 Certificate of Compliance for Methane Test Data

FORM 1 - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

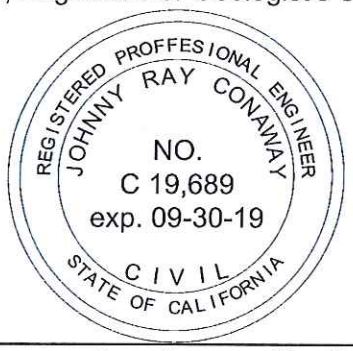
Part 1: Certification Sheet

Site Address: 370 S. Fairfax Ave., 6300-6370 W. 3rd St. & 347 S. Ogden Dr.
Legal Description: Tract: TR 215 Lot: PT 12 Block: None
Building Use: Residential Mid-Rise Building

Name of Architect, Engineer, or Geologist:
John Conaway
Mailing Address:
700 S. Flower St. #2580
Los Angeles, CA 90017
Telephone: 213 458 0494

Name of Testing Laboratory:
Terra-Petra
City Test Lab License #: 10224
Telephone: 213 458 0494

Architect's, Engineer's or Geologist's Stamp:



I hereby certify that I have tested the above site for the purpose of methane mitigation and that all procedures were conducted by a City of Los Angeles licensed testing agency in conformity with the requirements of the LADBS Information Bulletin P/BC 2014-101. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the architect, engineer or geologist whose signature is affixed thereon.

Signed: [signature] date 7/30/18

Required Data:

- Project is in the (Methane Zone) or (~~Methane Buffer Zone~~).
- Depth of ground water observed during testing: N/A feet below the Impervious Membrane.
- Depth of Historical High Ground Water Table Elevation*: 0 feet below the Impervious Membrane.
- Design Methane Concentration**: > 12,500 parts per million in volume (ppmv).
- Design Methane Pressure***: All Pressures inches of water column.
- Site Design Level: (~~Level I, Level II, Level III, Level IV~~, Level V) with 22 inches of water column.

De-watering:

- De-watering (is) (~~is not~~) required per Section 7104.3.7.
- Pump discharge rate TBD cubic feet per minute per reference geology or soil report: _____ dated _____.

Additional Investigation:

- Additional investigation (~~was~~) (was not) conducted.

Latest Grading on Site:

- Date of last grading on site (was) (~~was not~~) more than 30 days before Site Testing.
- See Attached explanation of the effect on soil gas survey results by grading operations.

Notes:

* Historical High Ground Water Table Elevation shall mean the highest recorded elevation of ground water table based on historical records and field investigations as determined by the engineer for the methane mitigation system.

** Design Methane Concentration shall mean the highest recorded measured methane concentration from either Shallow Soil Gas Test or any Gas Probe Set on the site.

*** Design Methane Pressure shall mean the highest total pressure measured from any Gas Probe Set on the site.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities. For efficient handling of information internally and in the internet, conversion to this new format of code related and administrative information bulletins including MGD and RGA that were previously issued will allow flexibility and timely distribution of information to the public.

FORM 1 (CONTINUED) - CERTIFICATE OF COMPLIANCE FOR METHANE TEST DATA

Part 2: Test Data - Shallow Soil Gas Test and Gas Probe Test

Site Address: 6300 W. 3rd St., Los Angeles CA
Description of Gas Analysis Instrument(s): Infra Red
Instrument Name and Model: LAND TEC Gem 5000 Instrument Accuracy: ± 1,000 ppmv.
City of Los Angeles Testing License #: 10224

Date	Time	Probe Set #	Concentration (ppmv)	Pressure (inches water column)	Probe Depth (feet)	Description / Probe Location
						SEE SITE PLAN FOR PROBE LOCATIONS
07/17/2018	22:00	SP-1	3000	0.01	4.0	
" "	" "	SP-2	103000	0.00	4.0	
" "	" "	SP-3	855000	0.00	4.0	
07/18/2018	" "	SP-4	*ND	0.01	4.0	
" "	" "	SP-5	6000	0.03	4.0	
07/17/2018	" "	SP-6	472000	0.04	4.0	
07/18/2018	" "	SP-7	*ND	0.01	4.0	
" "	" "	SP-8	6000	0.02	4.0	
07/17/2018	" "	SP-9	20000	0.06	4.0	
07/18/2018	" "	SP-10	60900	0.03	4.0	
" "	" "	SP-11	29600	0.02	4.0	
07/17/2018	" "	SP-12	105000	0.01	4.0	
" "	" "	SP-13	6400	0.00	4.0	
" "	" "	SP-14	271000	0.02	4.0	
07/18/2018	" "	SP-15	766000	0.01	4.0	
" "	" "	DP-1	219000	0.00	5.0	
" "	" "	" "	306000	0.01	10.0	
" "	" "	" "	276000	0.01	15.0	
" "						
" "	" "	DP-2	512000	0.04	5.0	
" "	" "	" "	829000	0.03	10.0	
" "	" "	" "	749000	0.07	15.0	
" "						
" "	" "	DP-3	207000	0.05	5.0	
" "	" "	" "	283000	0.02	10.0	
" "	" "	" "	267000	0.02	15.0	

" "						
" "	" "	DP-4	823000	0.01	5.0	
" "	" "	" "	541000	0.04	10.0	
" "	" "	" "	664000	0.02	15.0	
" "						
" "	" "	DP-5	201000	0.00	5.0	
" "	" "	" "	197000	0.10	10.0	
" "	" "	" "	286000	0.02	15.0	
" "						
" "	" "	DP-6	260000	0.04	5.0	
" "	" "	" "	153000	0.05	10.0	
" "	" "	" "	182000	0.00	15.0	
" "						
" "	" "	DP-7	74000	0.00	5.0	
" "	" "	" "	216000	0.00	10.0	
" "	" "	" "	276000	0.00	15.0	
" "						
" "	" "	DP-8	42000	0.02	5.0	
" "	" "	" "	106000	0.03	10.0	
" "	" "	" "	18000	0.01	15.0	
07/19/2018	" "	DP-1	253000	0.02	5.0	
" "	" "	" "	261000	0.00	10.0	
" "	" "	" "	289000	0.00	15.0	
" "	" "	DP-2	597000	0.01	5.0	
" "	" "	" "	636000	0.00	10.0	
" "	" "	" "	726000	0.00	15.0	
" "	" "	DP-3	315000	0.01	5.0	
" "	" "	" "	281000	0.02	10.0	
" "	" "	" "	282000	0.01	15.0	
" "	" "	DP-4	522000	0.00	5.0	
" "	" "	" "	895000	0.02	10.0	
" "	" "	" "	473000	0.01	15.0	
" "	" "	DP-5	217000	0.00	5.0	
" "	" "	" "	153000	0.03	10.0	
" "	" "	" "	309000	0.04	15.0	

" "	" "	DP-6	70000	0.01	5.0	
" "	" "	" "	166000	0.00	10.0	
" "	" "	" "	160000	0.01	15.0	
" "	" "	DP-7	479000	0.01	5.0	
" "	" "	" "	6000	0.04	10.0	
" "	" "	" "	6000	0.01	15.0	
" "	" "	DP-8	218000	0.00	5.0	
" "	" "	" "	115000	0.00	10.0	
" "	" "	" "	16000	0.00	15.0	

*ND = NON DETECT

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Table 1A - MITIGATION REQUIREMENTS FOR METHANE ZONE (See notes)

6300 3RD STREET

Site Design Level			Level I		Level II		Level III		Level IV		Level V
Design Methane Concentration (ppmv)			0 - 100		101 - 1,000		1,001 - 5,000		5,001 - 12,500		> 12,500
Design Methane Pressure (See note 1) (inches of water column)			≤ 2"	> 2"	≤ 2"	> 2"	≤ 2"	> 2"	≤ 2"	> 2"	All Pressure
PASSIVE SYSTEM	De-watering System		X	X	X	X	X	X	X	X	X
	Sub-Slab Vent System	Perforated Horizontal Pipes	X	X	X	X	X	X	X	X	X
		Gravel Blanket Thickness Under Impervious Membrane	2"	2"	2"	3"	2"	3"	2"	4"	4"
		Gravel Thickness Surrounding Perforated Horizontal Pipes	2"	2"	2"	3"	2"	3"	2"	4"	4"
		Vent Risers	X	X	X	X	X	X	X	X	X
	Impervious Membrane		X	X	X	X	X	X	X	X	X
ACTIVE SYSTEM	Sub-Slab System	Mechanical Extraction System (See note 2)								X	X
	Lowest Occupied Space System	Gas Detection System (See note 3)		X		X	X	X	X	X	X
		Mechanical Ventilation (See notes 3, 4, 5)		X		X	X	X	X	X	X
		Alarm System		X		X	X	X	X	X	X
	Control Panel			X		X	X	X	X	X	X
MISC. SYSTEM	Trench Dam		X	X	X	X	X	X	X	X	X
	Conduit or Cable Seal Fitting		X	X	X	X	X	X	X	X	X
	Additional Vent Risers (See note 5)										X

NOTES FOR TABLES 1A AND 1B:

"x" = Indicates a required mitigation component

1. De-watering is not required when the maximum Historical High Ground Water Table Elevation, or projecterd post-construction ground water level, is more than 12 inches below the bottom of the Perforated Horizontal Pipes.
2. The Mechanical Extraction System shall be capabale of providing an equivalent of a complete change of air 20 minutes of the total volume of the Gravel Blanket.
3. The mechanical ventilation system shall be capable of providing an equivalent of one complete change of the lowest occupied space every 15 minutes.
4. Vent openings to comply with Item IV.B.4 on sheet 1 may be used in lieu of mechanical ventilation.
5. The total quantity of the installed Vent Risers shall be increased to twice the rate for the Passive System.

HYDROLOGY AND WATER QUALITY TECHNICAL REPORT

3RD STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA
TRACT 215, LOT 12, ARB 1 & 2

GEOCON
WEST, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

HOLLAND ACQUISITION CO, LLC
LOS ANGELES, CALIFORNIA

PROJECT NO. A9713-06-01

JANUARY 31, 2019

Project No. A9713-06-01
January 31, 2019

Mr. Shaun Evans
Holland Acquisition Co., LLC
731 South Spring Street, Suite 202
Los Angeles, California 90014

Subject: HYDROLOGY AND WATER QUALITY TECHNICAL REPORT
3rd STREET AND FAIRFAX AVENUE
LOS ANGELES, CALIFORNIA

Dear Mr. Evans:

We have prepared this hydrology and water quality technical report for the property located at the southeast corner of 3rd Street and Fairfax Avenue in the City of Los Angeles, California.

If you have any questions regarding this report, or if we may be of further service, please contact the undersigned.

Very truly yours,

GEOCON WEST, INC.

REGISTERED GEOLOGIST
ANDREW A. KOPANIA
No. 4711
STATE OF CALIFORNIA

Dr. Andrew A. Kopania
PG 4711, CHG 31

REGISTERED PROFESSIONAL ENGINEER
JELISA THOMAS ADAMS
GE3092
GEOTECHNICAL
STATE OF CALIFORNIA

Jelisa Thomas Adams
GE 3092

(EMAIL) Addressee

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Figure 6, Perched Water and Oil Field Features
Figure 7, Soil Contamination Areas
Figure 8, Perched Water Impacts

APPENDICES
Appendix A – HydroCalc Model Output for 50-year 24-hour Design Storm Event
Appendix B – HydroCalc Model Output for 85th Percentile 24-hour Rain Event
Appendix C – LACDPW LID Stormwater Quality Control Measures to be Used at the Proposed Project

1. INTRODUCTION

1.1. PROJECT DESCRIPTION

Holland Acquisition Co., LLC (Applicant) is proposing to develop a mixed-use project in the Mid City West neighborhood of the City of Los Angeles, on a lot bounded by Fairfax Avenue to the west, Third Street to the north, Ogden Drive to the east, and Hancock Park Elementary School to the south (Project Site). Figure 1 shows the Project Site location. The Project Site is located at 300-370 S Fairfax Avenue, 6300-6370 West Third Street, and 347 South Ogden Drive. The Project Site is currently improved with an approximately 214,736 square-foot retail center known as the Town and Country Shopping Center, located on an approximately 327,121 square-foot site. Existing conditions at the Project Site are shown on Figure 2.

The Proposed Project includes the partial demolition of an existing surface parking lot and commercial buildings, for up to 151,048 square feet of existing commercial floor area to be demolished (with 63,688 square feet of existing commercial floor area to remain); and the construction of a new mixed-use building containing 331 multi-family residential apartment dwelling units, for approximately 343,000 square feet of new residential floor area, and up to approximately 83,994 square feet of new commercial floor area, all located on the eastern portion of the Project Site. Existing buildings on the western portion of the Project Site are to remain and are not considered part of the Proposed Project.

Figure 3 shows the site layout of the Proposed Project. The Proposed Project will consist of a mid-rise, eight-story structure and two levels of subterranean parking, for a maximum height of approximately 100 feet. The residential component will consist of 70 studio units, 162 one-bedroom units, 66 two-bedroom units, and 33 three-bedroom units. The Project Site would provide a maximum of 1,156 automobile parking spaces, comprised of 982 new spaces within the mixed-use building as part of the Proposed Project, and 174 spaces within the existing surface parking lot to remain. Short- and long-term bicycle parking will be provided pursuant to the Los Angeles Municipal Code (LAMC). Vehicular access to the Project Site will be provided via four driveways, which include two new driveways (one residential and one commercial) with access to the parking areas for the new mixed-use building along South Ogden Drive, and two existing driveways along South Fairfax Avenue and West 3rd Street with access to the surface parking lot. For the purposes of the analyses presented in this report, it is assumed that the new mixed-use building will have a total hardscaped footprint of approximately 140,091 square feet.

1.2. SCOPE OF WORK

This report provides an assessment of surface water conditions under existing and proposed conditions, a description of existing soil and groundwater conditions at the Project Site, and an assessment of the effects of the Proposed Project on existing soil and groundwater conditions. The potential impacts of the Proposed Project on hydrology and water quality are also evaluated based on CEQA Appendix G thresholds of significance.

The evaluations presented in this report are based primarily on the following documents:

- County of Los Angeles, Department of Public Works, Hydrology Manual (January 2006) https://dpw.lacounty.gov/wrd/publication/engineering/2006_Hydrology_Manual/2006%20Hydrology%20Manual-Entire.pdf.
- City of Los Angeles, L.A. CEQA Thresholds Guide (2006) http://planning.lacity.org/Documents/MajorProjects/CEQAThresholdsGuide.pdf.
- City of Los Angeles, Planning and Land Development Handbook for Low Impact Development (LID), Part B, Planning Activities, 5th Edition (2016) https://www.lastormwater.org/wp-content/files_mf/lidmanualfinal.pdf.
- County of Los Angeles, Department of Public Works, Low Impact Development Standards Manual (February 2014) http://dpw.lacounty.gov/ldd/lib/fp/Hydrology/Low%20Impact%20Development%20Standards%20Manual.pdf.
- County of Los Angeles, Department of Public Works, Analysis of 85th Percentile 24-hour Rainfall Depth Analysis Within the County of Los Angeles (February 2004) http://ladpw.org/wrd/Publication/engineering/Final_Report-Probability_Analysis_of_85th_Percentile_24-hr_Rainfall1.pdf.
- County of Los Angeles, Department of Public Works, HydroCalc program http://dpw.lacounty.gov/wmd/dsp_LowImpactDevelopment.cfm.

Internet citations listed in this report were accessed multiple times during the weeks of August 6, 2018, August 13, 2018, and January 21, 2019.

2. EXISTING ENVIRONMENT

2.1. SURFACE WATER HYDROLOGY

2.1.1. REGIONAL

The Project Site is located within the greater Los Angeles area within the Ballona Creek Watershed. Ballona Creek is a 9 mile long flood protection channel that drains the Los Angeles basin, from the Santa Monica Mountains on the north, the Harbor Freeway (State Route 110) on the east, and the Baldwin Hills on the south. The Ballona Creek Watershed totals about 130 square miles. Major tributaries to Ballona Creek include Centinela Creek, Sepulveda Canyon Channel, Benedict Canyon Channel, and numerous storm drains. Figure 4 shows the upper part of the Ballona Creek watershed, isohyets for the 50-year 24-hour storm event, and soil types in the Project Site area.

The Project Site is located in a Federal Emergency Management Agency (FEMA) designated flood Zone X, meaning that it is in an area of minimal flood hazard and outside of any 100-year flood hazard areas. Ogden Avenue, Fairfax Boulevard, and 3rd Street adjacent to the Project Site, and the property to the north of the Project Site, are within an area identified by FEMA to be subject to a 0.2% chance of annual flooding, which is equivalent to a 500-year recurrence interval. The FEMA flood zones are shown on Figure 5. The boundary of the 500-year flood zone is also shown on Figure 2. The 500-year flood boundary appears to partially overlap the stand-alone bank building in the northwest corner of the Project Site.

2.1.2. ON SITE

The Project Site slopes toward the west, as indicated on Figure 2. The east side of the Project Site is at an elevation of approximately 186 ft while the west side of the Project Site is at an elevation of approximately 180 ft. Thus, the surface drops about 6 feet over a distance of approximately 660 ft, for a slope of 0.9 percent. The parking lot and the private driveway are graded to direct sheet flow runoff into concrete gutters, which route the runoff to storm drain drop inlets (DIs). The locations of the concrete gutters and the DIs are shown on Figure 2. The DIs are presumed to be connected to the City storm drain system. According to the Applicant, runoff from the roofs of the main commercial buildings is most likely piped directly to the City storm drains in the adjacent streets.

Surface water drainage collection, treatment and conveyance are regulated by the City of Los Angeles. Per the City's Special Order No. 007-1299, December 3, 1999, the City has adopted the Los Angeles County Department of Public Works (LACDPW) Hydrology Manual as its basis of design for storm drainage facilities. The LACDPW Hydrology Manual (2006) requires projects to have drainage facilities that meet the Urban Flood level of protection. The Urban Flood is runoff from a 25-year frequency design storm falling on a saturated watershed. The City also considers the 50-year frequency design storm event to analyze potential impacts on surface water hydrology as a result of development, as discussed further in Section 3 and Section 5.2. Thus, to provide a more conservative analysis, this report uses the larger storm event (the 50-year 24-hour storm) as the design storm event for evaluation of potential impacts.

The Low Impact Development documents for both the City of Los Angeles and the County of Los Angeles specify that a project of the type proposed for the Site mitigate stormwater runoff impacts. The design storm event for development of Best Management Practices (BMPs) for the Site is the greater of the 0.75-inch 24-hour rain event or the 85th percentile 24-hour rain event. The 85th percentile 24-hour rain event for the Site is 1.15 inches, as shown on the isohyetal map in the LACDPW Analysis of 85th Percentile 24-hour Rainfall Depth document cited above. Thus, the 85th percentile 24-hour rain event will be used as the design storm event for development of BMPs.

Since the Project Site is much less than 40 acres, the LACDPW HydroCalc software program was used to identify rainfall intensities, times of concentration, peak flow rates, and the total 24-hour runoff. Table 1 shows the results produced by HydroCalc for the 50-year 24-hour storm event. Appendix A includes the HydroCalc output files for the 50-year 24-hour storm event model evaluations. The percent impervious areas for existing and proposed conditions were taken from Appendix D of the LACDPW Hydrology Manual. The Project Site is currently a retail center (Code 1222) with a reported percent impervious of 96 percent. The west portion of the Project Site will remain as a retail center so there will be no material change in impervious cover as a result of the Proposed Project. The east portion of the Project Site will be redeveloped as mixed-use apartment building (Code 1124), with a reported percent impervious of 86 percent.

2.2. SURFACE WATER QUALITY

2.2.1. REGIONAL

The Project Site lies within the Ballona Creek Hydrologic Area of the Santa Monica Bay Hydrologic Unit as designated by the Regional Water Quality Control Board (RWQCB) (https://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/electronics_documents/FinalRevisedChapter1Text.pdf). The Ballona Creek watershed collects runoff from several partially urbanized canyons on the south slopes of the Santa Monica Mountains as well as from intensely urbanized areas of West Los Angeles, Culver City, Beverly Hills, Hollywood, Inglewood, Santa Monica, and parts of central Los Angeles. A large number of pollutants associated with urban development are found in stormwater in the Ballona Creek watershed, such as trash, sediment, metals, pesticides, and bacteria.

2.2.2. ON SITE

The Project Site currently has no means for treatment of stormwater runoff. As discussed above, the parking lot and the private driveway are graded to direct sheet flow runoff into concrete gutters, which route the runoff to DIs, which are presumed to be connected to the City storm drain system. The concrete gutters and DIs are shown on Figure 2. Runoff from the roofs of the main commercial buildings is believed to be piped directly to the City storm drains in the adjacent streets. Other than grates over the DIs that may prevent large debris and trash from entering the storm drains, there are not any apparent features currently on the Project Site intended to address stormwater quality.

2.3. GROUNDWATER HYDROLOGY

2.3.1. REGIONAL

The City of Los Angeles overlies the Los Angeles Coastal Plain Groundwater Basin. The Los Angeles Coastal Plain Basin is comprised of the Hollywood, Santa Monica, Central, and West Coast Subbasins. Groundwater flow in the Los Angeles Coastal Plain Groundwater Basin is generally south-southwesterly and may be restricted by natural geological features. Replenishment of groundwater basins occurs mainly by percolation of precipitation throughout the region via permeable surfaces, spreading grounds, and groundwater migration from adjacent basins, as well as injection wells designed to pump freshwater along specific seawater barriers to prevent the intrusion of salt water.

2.3.2. ON-SITE

Within the Los Angeles Coastal Plain Groundwater Basin, the Project Site overlies the Hollywood Subbasin. The Hollywood Subbasin is bounded on the north by the Santa Monica Mountains and the Hollywood fault, on the east by the Elysian Hills, the west by the Newport-Inglewood Uplift and the south by the La Brea high, an area of shallow bedrock. Groundwater in the Subbasin is replenished by percolation of precipitation and stream flow from the Santa Monica Mountains to the north. Urbanization has decreased the surface area open to direct percolation. Therefore, natural recharge is somewhat limited. The groundwater flow direction is generally toward the southwest.

Two geotechnical exploration programs and a Phase II Environmental Site Assessment (ESA) have been conducted at the Project Site. A preliminary geotechnical investigation was conducted by Krazen and Associates, Inc. in 2017. In early 2018, Geocon completed an additional geotechnical investigation. The Phase II ESA was completed in March 2018, by Northgate Environmental Management, Inc. The upper 5 to 6 feet of soils beneath the site consist of artificial fill material generated during prior grading and excavation of the Site. Quaternary alluvial material, consisting of interbedded layers of sand, silt, and clay, is present beneath the artificial fill. A shallow, perched aquifer was identified beneath part of the Project Site area, with the depth to groundwater varying seasonally between approximately 18 feet and 30 feet below ground surface. Figure 6 shows the area of perched groundwater identified in the east portion of the Project Site. The first major aquifer zone in the area is approximately 120 feet below ground surface and is referred to as the Exposition aquifer. Other regionally important groundwater aquifer zones are present below the Exposition aquifer.

2.4. GROUNDWATER QUALITY

2.4.1. REGIONAL

Due to the intense urbanization of the area overlying the Hollywood Subbasin, the groundwater has been impacted by a wide range of constituents. Constituents of concern listed for the subbasin include total dissolved solids (TDS), nitrate, volatile organic compounds (VOCs), petroleum hydrocarbons, and perchlorate. The area overlies numerous oil and gas fields and petroleum production has affected the soil and water in the region.

2.4.2. ON-SITE

According to the Phase II ESA, the Project Site was part of the Salt Lake Oil Field from the early 1900s through at least 1930. The Salt Lake Oil Field was a regional oil production area. One oil well was installed to an approximate depth of 2,909 feet below ground surface on the northeastern corner of the Project Site in 1906 and was abandoned in 1930. Three sumps used to collect oil field liquids are believed to have existed in the central portion of the Project Site during operation of the oil field. Figure 6 shows the location of historic sumps, tanks, and the abandoned oil well associated with the Salt Lake Oil Field.

Soil and perched groundwater testing were conducted as part of the Phase II ESA. The testing identified the presence of petroleum hydrocarbons consistent with diesel and motor oil in the soils above the groundwater level in the northeast and northwest parts of the parking lot on the Project Site. The petroleum hydrocarbon concentrations ranged from 160 milligrams per kilogram (mg/kg, equivalent to parts per million, or ppm) to 1,100 mg/kg in the soils. These concentrations exceed the RWQCB soil screening level for protection of groundwater of 100 mg/kg and the U.S. EPA residential screening level of 110 mg/kg for residential development. Figure 7 shows the areas of petroleum hydrocarbon impacts within the upper foot of soils on the east portion of the Project Site.

Petroleum hydrocarbons were also present in five of six perched groundwater samples, at concentrations ranging from 520 micrograms per liter (ug/L, equivalent to parts per billion, or ppb) to 2,000 ug/L. These concentrations exceed the RWQCB NPDES discharge limit of 100 ug/L and the U.S. EPA residential screening level for tap water of 5.5 ug/L. Figure 8 shows the locations of wells within the shallow perched groundwater zone that are impacted by petroleum hydrocarbons.

3. SIGNIFICANCE THRESHOLDS

Appendix G of the CEQA Guidelines contain thresholds of significance to analyze potential impacts on hydrology, water quality, and groundwater. This report includes and analyzes each applicable threshold. The CEQA Appendix G thresholds ask whether a Project would:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater water quality;

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

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; (iv) impede or redirect flood flows?

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

4. PROJECT CONDITIONS

4.1 DURING CONSTRUCTION

On the east portion of the Project Site, construction activities will include demolition of the existing buildings and parking lot, excavation to approximately 30 feet below grade to construct foundations and underground parking, and construction of the new mixed-use apartment building. On the west portion of the Project Site, the facades of the commercial buildings may be upgraded and parts of the parking lot may be re-paved and/or re-striped, but not as part of the Proposed Project. Prior to beginning any construction activity for the Proposed Project, including site clearing and demolition work, a construction Storm Water Pollution Prevention Plan (SWPPP), and implement applicable BMPs identified in the SWPPP. The SWPPP, any amendments, and monitoring reports are to be posted to the State Water Resources Control Board's Stormwater Multiple Application and Report Tracking System (SMARTS) website. BMPs will be designed and maintained as part of the implementation of the SWPPP in compliance with the Construction General Stormwater Permit.

Construction activities will involve the excavation and offsite disposal of soils, along with the dewatering of impacted shallow groundwater, if encountered. Existing soil testing data will be used to develop an excavation plan and a worker health and safety plan, and to conduct waste profiling to identify the appropriate disposition and disposal facility for the affected soils. These documents will

be provided to the California Regional Water Quality Control Board – Los Angeles Region for review and approval prior to beginning excavation. Shallow groundwater, if encountered, will be pumped from the excavation and is proposed to be treated with a granular activated carbon treatment system consisting of a settling tank, two carbon vessels and potentially a particulate filter. The treated water would be discharged to either a local storm drain outfall under an NPDES permit or to a sanitary sewer tie-in, depending on discharge volume.

4.2 DURING OPERATION

The Proposed Project qualifies as a "Designated Project" under the LACDPW Low Impact Development (LID) standards because more than 5,000 square feet of impervious surface on a site that was previously developed will be replaced. The Project Site generally does not have stormwater quality control measures in the existing condition.

Runoff under existing (baseline) conditions and Proposed Project conditions as a result of a modeled 50-year 24-hour design storm event, calculated using the LACDPW HydroCalc program, are discussed in Section 2.1.2 and presented in Table 1. The City and County LID standards provide stormwater management requirements for "Designated Projects" and include items such as management of stormwater quality design volume (SWQDv) on-site using infiltration, evapotranspiration, stormwater runoff harvesting and re-use, or a combination of these methods.

On the east portion of the Project Site, the existing parking lot and commercial buildings will be replaced by a new mixed-use apartment building. Loading docks and waste management areas will be covered and not exposed to rainfall. Runoff from the roof, patios, and passageway areas will be harvested for re-use and any excess runoff will be routed through flow-through planter areas prior to discharge to the storm sewer system. Runoff from the west portion of the Project Site is anticipated to be managed in materially the same way it currently is, and any activities on that portion of the Project Site are not part of the Proposed Project. Also note that, since all of the DIs are currently located on the west portion of the Project Site, the amount of stormwater entering the DIs will be substantially reduced since there will be virtually no additional runoff from the east portion of the Project Site that is routed to the western portion in the existing conditions.

Due to the relatively shallow depth to groundwater, especially relative to the foundation for the underground parking garage, and the presence of petroleum hydrocarbons in the underlying soils, infiltration of stormwater is not technically feasible and would not be permitted by RWQCB. Therefore, other alternatives for stormwater management will need to be implemented at the site. As discussed above, site-specific source control measures are incorporated into the design of the new mixed-use building to be constructed on the east portion of the Project Site (i.e. covering all waste management and loading dock areas; harvesting rainwater; use of flow-through planters).

As defined in the LACDPW LID Standards, the SWQDv is the runoff from the larger of a 0.75-inch, 24-hour rain event or the 85th percentile rain event. Based on the isohyetal map in the LACDPW Analysis of the 85th Percentile 24-Hour Rainfall Depth document, the 85th percentile 24-hour rainfall event is 1.15 inches at the Project Site. Therefore, the SWQDv is based on the 85th percentile rain event and has been calculated using HydroCalc. Appendix B provides the HydroCalc output files for the 85th percentile model evaluations. As shown in the right-hand column of Table 1, for the Proposed Project on the east portion of the Project Site, the SWQDv is 10,440 cubic feet, or approximately 78,100 gallons.

Harvested rainwater will be used for landscape irrigation and maintenance needs. Rainwater harvesting will be accomplished using rooftop gutters and downspouts to route the water to cisterns or storage tanks within or beneath the building. This stormwater quality control measure is comparable to Measure RET-6: Rain Barrel/Cistern in Appendix E of the LACDPW LID Standards Manual, including the maintenance requirements, except that cisterns or large tanks will be used in lieu of rain barrels due to the size of the building.

Planters installed on the Project Site will be designed to filter excess runoff to improve stormwater quality. Runoff from the building roof and other areas that exceeds the SWQDv will be routed to flow-through planters to improve the quality of stormwater runoff that exceeds the retention requirements under the LID standards. In addition, available harvested rainwater will be used to irrigate the planters during the dry season to minimize the Proposed Project's demand for potable water for landscape irrigation purposes. The planters would be comparable to Measures VEG-2: Stormwater Planter and VEG-3: Tree-Well Filter as described in Appendix E of the LACDPW LID Standards Manual. Appendix C contains the LACDPW LID descriptions for RET-6, VEG-2, and VEG-3.

5. PROJECT IMPACT ANALYSIS

5.1 CEQA APPENDIX G THRESHOLDS

a) Will the Project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater water quality?

Construction activities for the Proposed Project include demolition of existing commercial buildings and paved parking areas, excavation to approximately 30 feet below grade for foundation and underground parking, building up the structure, and hardscape and landscape around the structure. Exposed and stockpiled soils may contain petroleum hydrocarbons and could be subject to erosion and conveyance into nearby storm drains. Dewatering of perched water, which also contains petroleum hydrocarbons, could result in the release of contaminants into the storm sewer or sanitary sewer system.

The construction area is greater than one acre, so the Proposed Project would be required to obtain coverage under the NPDES General Construction Activity Permit (order No. 2009-0009-SWQ). In accordance with the requirements of this permit, the Applicant would file an NOI and implement a SWPPP that specifies BMPs and erosion control measures to be used during construction. Construction activities are temporary and flow directions and runoff volumes during construction will be controlled. In addition, the Proposed Project would be required to comply with all applicable City grading permit regulations that require necessary measures, plans, and inspections to reduce sedimentation and erosion. Water produced during dewatering will be treated to remove contaminants and discharged under applicable permits to the storm or sanitary sewer system. Thus, through compliance with all NPDES General Construction Permit requirements, including preparation of a SWPPP, implementation of BMPs, compliance with applicable City grading regulations, and treatment of dewatering water prior to discharge, the Proposed Project would not violate any water quality standards or waste discharge requirements, or otherwise substantially degrade surface or groundwater quality during construction.

After completion of the Proposed Project construction, appropriate LID Stormwater Quality Control Measures will be implemented on the newly-constructed mixed-use building. These include Measures VEG-2 (flow-through planters) and VEG-3 (flow through tree rings) to filter runoff in excess of the SWQDv and harvested rainwater used for landscape irrigation. The total volume of runoff will also be reduced by harvesting the SWQDv (Measure RET-6 rainwater harvesting). Since there are currently no stormwater quality control measures present at the site, the Proposed Project will improve the quality and reduce the volume of stormwater runoff compared to existing conditions.

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

The Proposed Project will not rely on groundwater for any water supply needs after it is constructed. During construction, dewatering may be required for excavation of the foundation and underground parking levels if the water levels in the shallow perched groundwater zone are within the depth of excavation. As shown on Figure 6, the extent of the perched groundwater zone is limited to the northern part of east portion of the Project Site. This perched groundwater zone is contaminated with petroleum hydrocarbons and is not suitable for potable groundwater supply. Furthermore, the perched groundwater zone is not part of the regional aquifers that provide usable groundwater supplies. The regional aquifers are at least 120 feet below ground surface in the area of the Project Site, which is much deeper than the maximum depth of excavation. The Project Site is currently covered with commercial buildings and a paved

parking lot. The west portion of the Project Site will remain in materially the same condition, and any activities performed there are not considered part of the Proposed Project. On the east portion of the Project Site, the existing commercial buildings and parking lot will be replaced with a mixed-use apartment building. Due to the characteristics of the Proposed Project and the existing geologic and groundwater conditions, there will be no change in the amount of rainfall that might percolate through the Project Site to groundwater.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; (iv) impede or redirect flood flows?

The Proposed Project will not alter the overall drainage pattern of the Project Site and there are no streams or rivers on or near it. The Project Site is covered almost completely with impervious surfaces, under both existing and proposed conditions, such that there is little or no potential for erosion or siltation to occur. Due to the rainwater harvesting that will occur as part of the improvements on the east portion of the Project Site, there will be less runoff from the site after the Project is completed than under current conditions.

The Proposed Project will comply with City and County LID standards by harvesting rainwater (Measure RET-6) to reduce the amount of stormwater runoff compared to existing conditions, and by using flow-through planters and tree rings (Measures VEG-2 and VEG-3, respectively) to improve the quality of any remaining runoff from the east portion of the Project Site. Stormwater runoff volumes and management will not change on the west side of the Project Site, and it is not considered part of the Proposed Project for purposes of impact analysis.

As shown in Table 1, under existing conditions, runoff from the east portion of the Project Site for the 50-year 24-hour design storm event and for the SWQDv are 58,009 cubic feet and 11,500 cubic feet, respectively. After completion of the Proposed Project, runoff from the east portion of the Project Site for the 50-year 24-hour design storm event and for the SWQDv will be reduced to 53,215 cubic feet and 10,440 cubic feet, respectively. Thus, the Proposed Project will result in a reduction of the total volume of runoff and an improvement of the quality of the runoff.

As shown on Figure 5, the Project Site is not located in or near a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map. Therefore, the Project will not impede or redirect flood flows, or place housing within a 100-year flood hazard area.

The Project Site is within the potential inundation area of the Hollywood Reservoir according to the City of Los Angeles General Plan Safety Element, Exhibit G: Inundation and Tsunami Hazard Areas (https://planning.lacity.org/cwd/ gnlpln/saftyelt.pdf). Dam safety regulations are the primary means of reducing damage or injury due to inundation occurring from dam failure. The California Division of Safety of Dams (DSoD) regulates the siting, design, construction, and periodic review of all dams in the State. In addition, dams and reservoirs are monitored during storms and measures are instituted in the event of potential overflow. These measures include seismic retrofits and other related dam improvements completed under the requirements of the 1972 State Dam Safety Act. Further, in the event of a dam failure at the Hollywood Reservoir, existing urban development north of the Project Site, including the US 101 Freeway, would serve as a physical barrier between the reservoir and the Project Site. Therefore, the risk of flooding from inundation due to the failure of the dam at Hollywood Reservoir is considered low.

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

A seiche is an oscillating wave that forms within an enclosed water body, such as a lake or a pond, due to prolonged winds or an earthquake. If the height of the oscillating wave exceeds the freeboard of the enclosed water body, then surrounding properties could be inundated. There are no enclosed water bodies in which a seiche could form near the Project Site.

A tsunami is a large wave that forms in an ocean or very large lake due to seismic shaking or an earthquake-generated submarine landslide. The Project Site is located 8.75 miles from the Pacific Ocean and is at an elevation of 180 feet or more above sea level. According to the City of Los Angeles General Plan Safety Element, Exhibit G: Inundation and Tsunami Hazard Areas (https://planning.lacity.org/cwd/gnlpln/saftyelt.pdf), the Project Site is not within a tsunami hazard area and thus is not prone to being inundated by a tsunami.

A mudflow forms when excessive rainfall occurs on steep slopes or slopes on which vegetation has been removed (for example, due to a brush fire). The Project Site is not located adjacent to and downslope of areas of steep slopes or bare soils, as indicated on Figures E-1 and E-2 of Appendix E of the City of Los Angeles LID Handbook, as cited above. All areas adjacent to the Project Site are urbanized and have been developed. Therefore, the Project Site is not subject to inundation by a mudflow.

6. OVERALL LEVEL OF SIGNIFICANCE

Based on the analysis contained in this report, no significant impacts have been identified for surface water and groundwater hydrology or for surface water and groundwater quality for the Proposed Project.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil and groundwater conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, Geocon West, Inc. should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous or corrosive materials was not part of the scope of services provided by Geocon West, Inc.

2. This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

3. The findings of this report are valid as of the date of this report. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

Table 1

Hydrology Parameters and HydroCalc Results

3rd and Fairfax Project

Los Angeles, California

Site Parameters					50-yr 24-hr rain event (L.A. CEQA Threshold)					85th Percentile 24-hr event (LID Manual)				
Site Area	Condition	Area (acres)	Slope	Percent Impervious	Rainfall Depth (in)	Peak Intensity (in/hr)	Time of Conc. (Cd, minutes)	Peak Flow Rate (cubic feet per second)	Peak Runoff (cubic feet)	Rainfall Depth (in)	Peak Intensity (in/hr)	Time of Conc. (Cd, minutes)	Peak Flow Rate (cubic feet per second)	Peak Runoff (cubic feet)
Entire Site	Existing	7.1	0.009	96	5.78	2.62	9	16.7	128,719	1.15	0.316	26	1.95	25,514
West Half	Existing & Proposed	3.9	0.0086	96	5.78	3.17	6	11.1	70,701	1.15	0.376	18	1.27	14,015
East Half	Existing	3.2	0.0097	96	5.78	3.45	5	9.9	58,009	1.15	0.397	16	1.1	11,500
East Half	Proposed	3.2	0.0097	86	5.78	3.45	5	9.9	53,215	1.15	0.386	17	0.97	10,440

APPENDIX A

APPENDIX A

HYDROCALC MODEL OUTPUT
FOR 50-YEAR 24-HOUR DESIGN STORM EVENT

Peak Flow Hydrologic Analysis

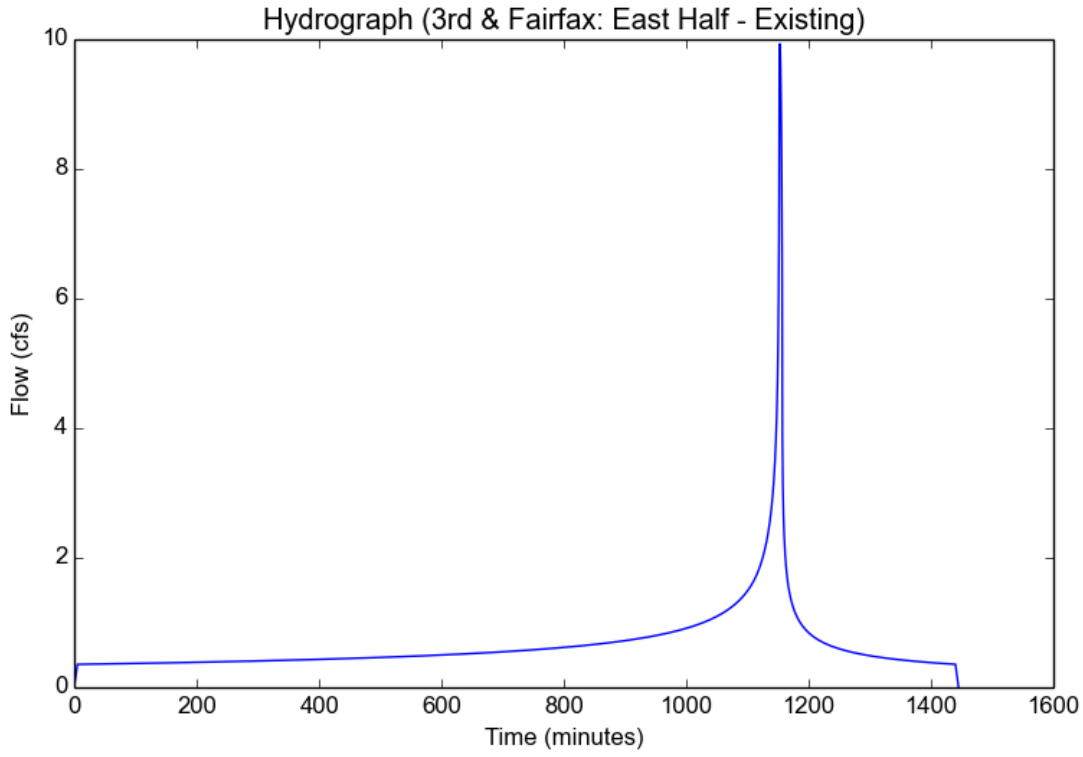
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Fairfax - East Half - Existing.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Fairfax
Subarea ID	East Half - Existing
Area (ac)	3.2
Flow Path Length (ft)	310.0
Flow Path Slope (vft/hft)	0.0097
50-yr Rainfall Depth (in)	5.78
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	5.78
Peak Intensity (in/hr)	3.4485
Undeveloped Runoff Coefficient (Cu)	0.9
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	9.9317
Burned Peak Flow Rate (cfs)	9.9317
24-Hr Clear Runoff Volume (ac-ft)	1.3317
24-Hr Clear Runoff Volume (cu-ft)	58009.399



Peak Flow Hydrologic Analysis

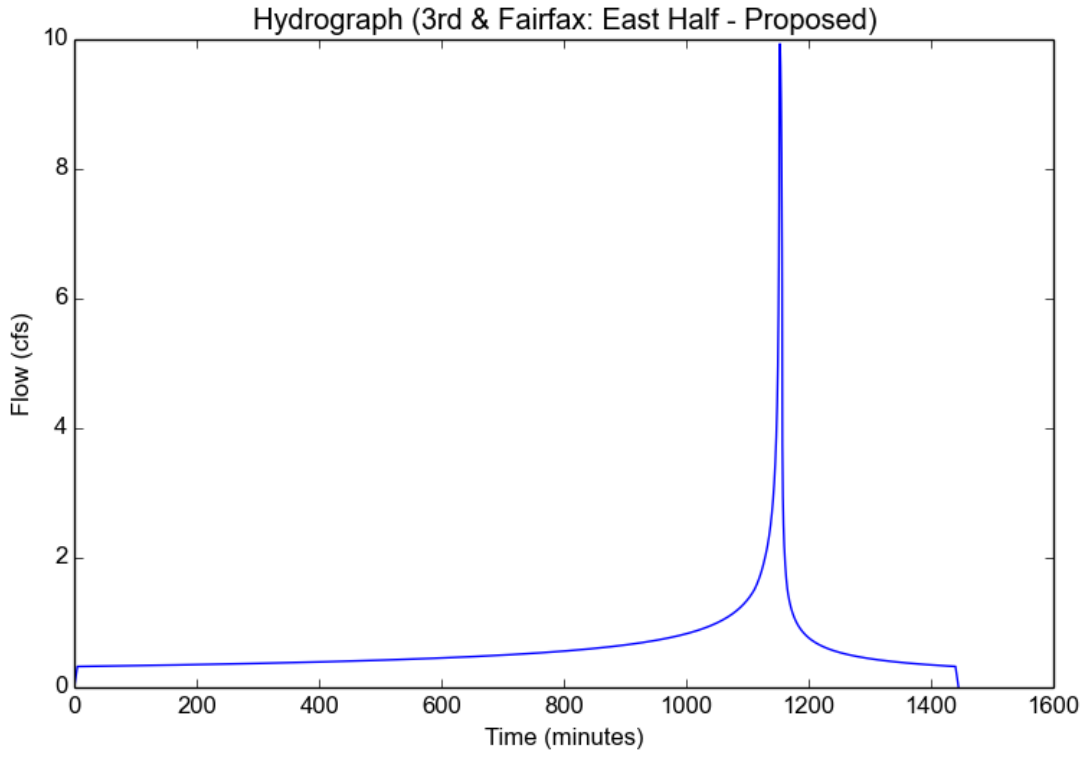
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Fairfax - East Half - Proposed.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Fairfax
Subarea ID	East Half - Proposed
Area (ac)	3.2
Flow Path Length (ft)	310.0
Flow Path Slope (vft/hft)	0.0097
50-yr Rainfall Depth (in)	5.78
Percent Impervious	0.86
Soil Type	13
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	5.78
Peak Intensity (in/hr)	3.4485
Undeveloped Runoff Coefficient (Cu)	0.9
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	9.9317
Burned Peak Flow Rate (cfs)	9.9317
24-Hr Clear Runoff Volume (ac-ft)	1.2217
24-Hr Clear Runoff Volume (cu-ft)	53215.2495



Peak Flow Hydrologic Analysis

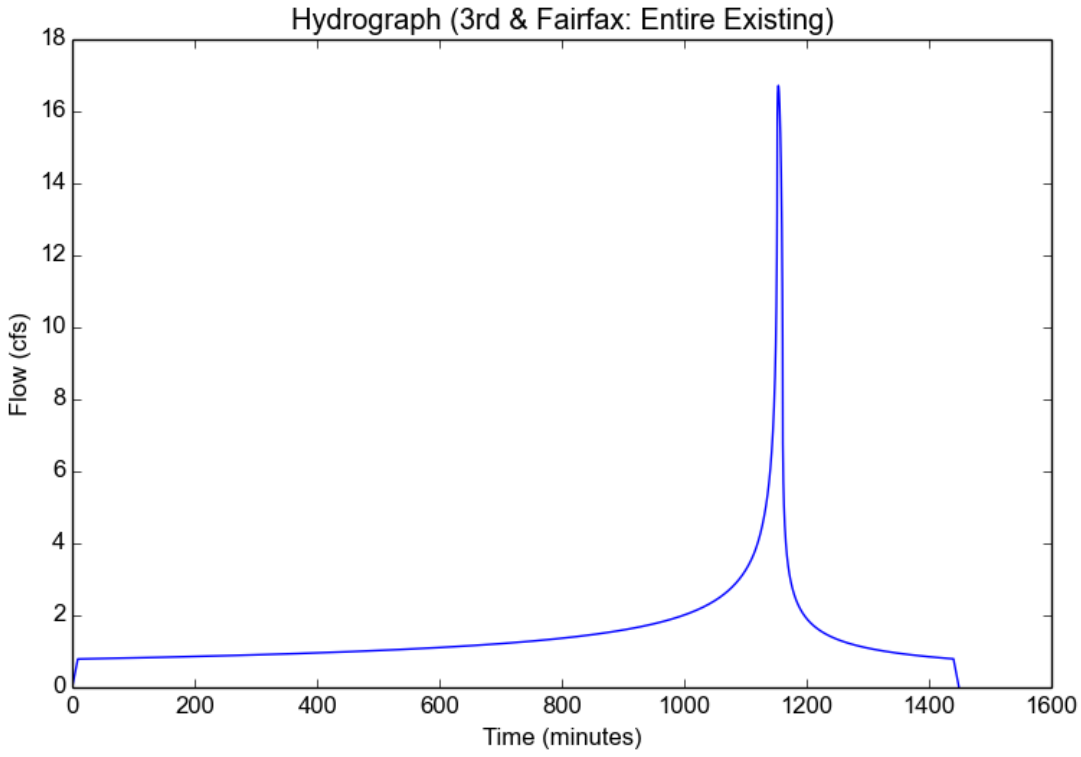
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Fairfax - Entire Existing.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Fairfax
Subarea ID	Entire Existing
Area (ac)	7.1
Flow Path Length (ft)	660.0
Flow Path Slope (vft/hft)	0.009
50-yr Rainfall Depth (in)	5.78
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	5.78
Peak Intensity (in/hr)	2.6161
Undeveloped Runoff Coefficient (Cu)	0.8992
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	16.7163
Burned Peak Flow Rate (cfs)	16.7163
24-Hr Clear Runoff Volume (ac-ft)	2.955
24-Hr Clear Runoff Volume (cu-ft)	128719.0593



Peak Flow Hydrologic Analysis

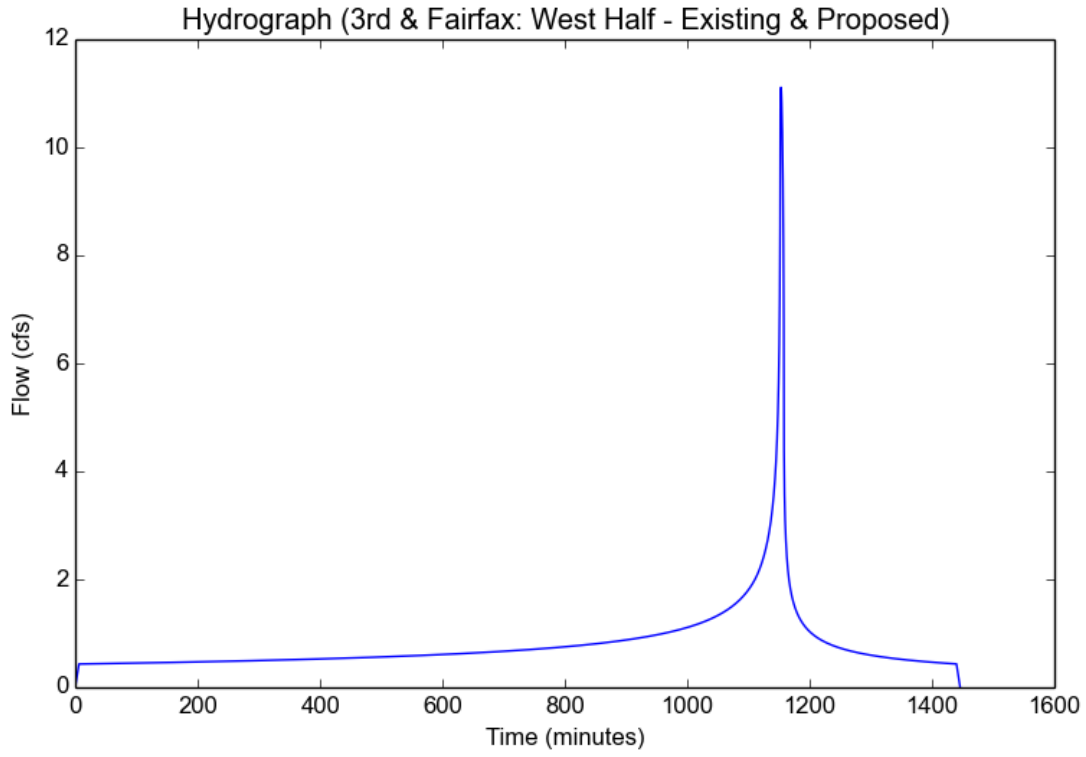
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Fairfax - West Half - Existing & Proposed.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Fairfax
Subarea ID	West Half - Existing & Proposed
Area (ac)	3.9
Flow Path Length (ft)	350.0
Flow Path Slope (vft/hft)	0.0086
50-yr Rainfall Depth (in)	5.78
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	5.78
Peak Intensity (in/hr)	3.1653
Undeveloped Runoff Coefficient (Cu)	0.9
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	11.1102
Burned Peak Flow Rate (cfs)	11.1102
24-Hr Clear Runoff Volume (ac-ft)	1.6231
24-Hr Clear Runoff Volume (cu-ft)	70700.8692



APPENDIX B

APPENDIX B

HYDROCALC MODEL OUTPUT
FOR 85TH PERCENTILE 24-HOUR RAIN EVENT

Peak Flow Hydrologic Analysis

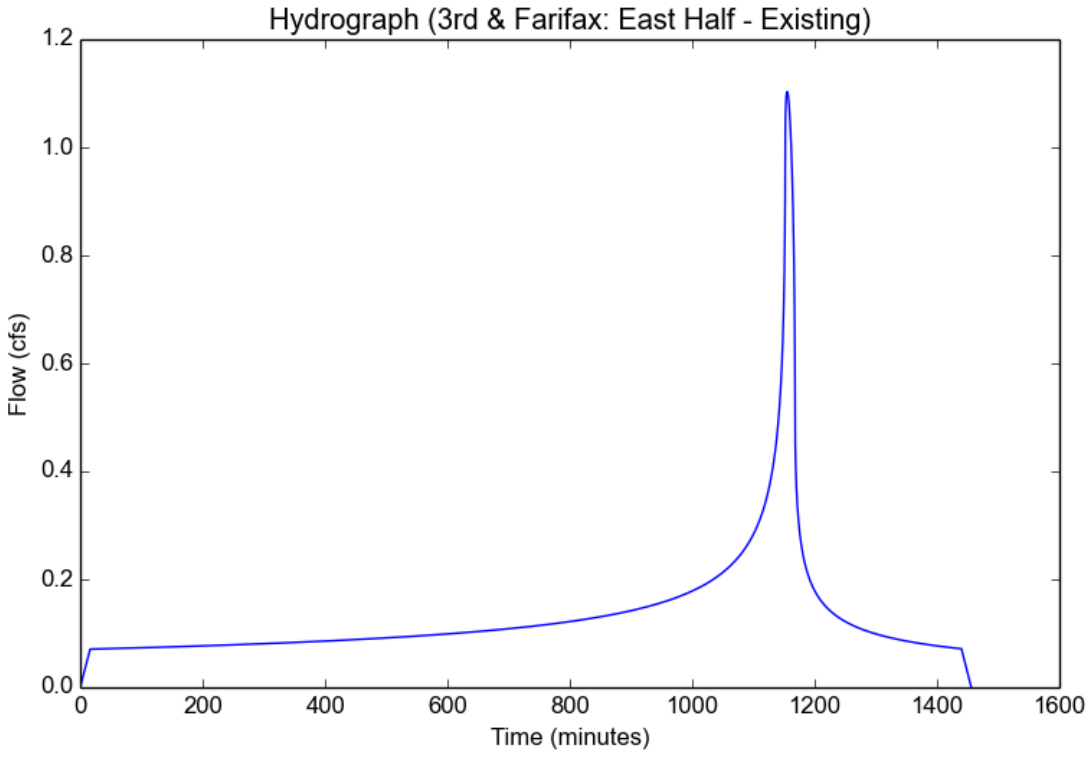
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Farifax - East Half - Existing - 85.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Farifax
Subarea ID	East Half - Existing
Area (ac)	3.2
Flow Path Length (ft)	310.0
Flow Path Slope (vft/hft)	0.0097
85th Percentile Rainfall Depth (in)	1.15
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.15
Peak Intensity (in/hr)	0.3972
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.868
Time of Concentration (min)	16.0
Clear Peak Flow Rate (cfs)	1.1032
Burned Peak Flow Rate (cfs)	1.1032
24-Hr Clear Runoff Volume (ac-ft)	0.264
24-Hr Clear Runoff Volume (cu-ft)	11499.3012



Peak Flow Hydrologic Analysis

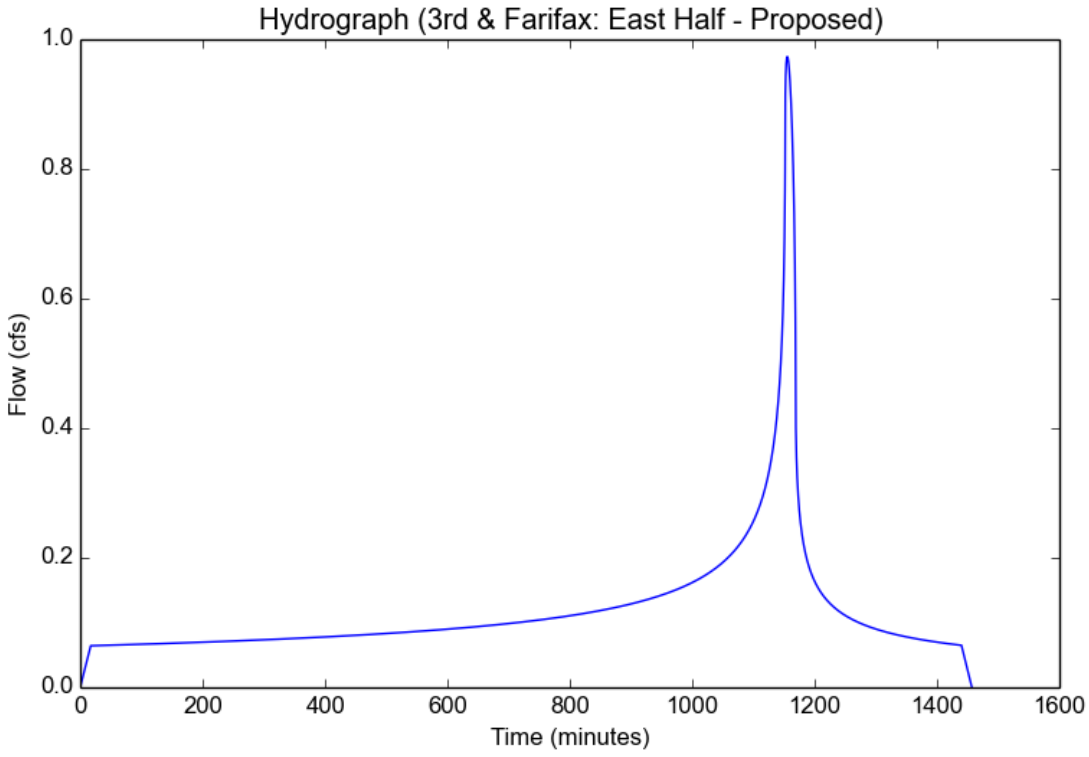
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Farifax - East Half - Proposed - 85.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Farifax
Subarea ID	East Half - Proposed
Area (ac)	3.2
Flow Path Length (ft)	310.0
Flow Path Slope (vft/hft)	0.0097
85th Percentile Rainfall Depth (in)	1.15
Percent Impervious	0.86
Soil Type	13
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.15
Peak Intensity (in/hr)	0.386
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.788
Time of Concentration (min)	17.0
Clear Peak Flow Rate (cfs)	0.9734
Burned Peak Flow Rate (cfs)	0.9734
24-Hr Clear Runoff Volume (ac-ft)	0.2397
24-Hr Clear Runoff Volume (cu-ft)	10439.4622



Peak Flow Hydrologic Analysis

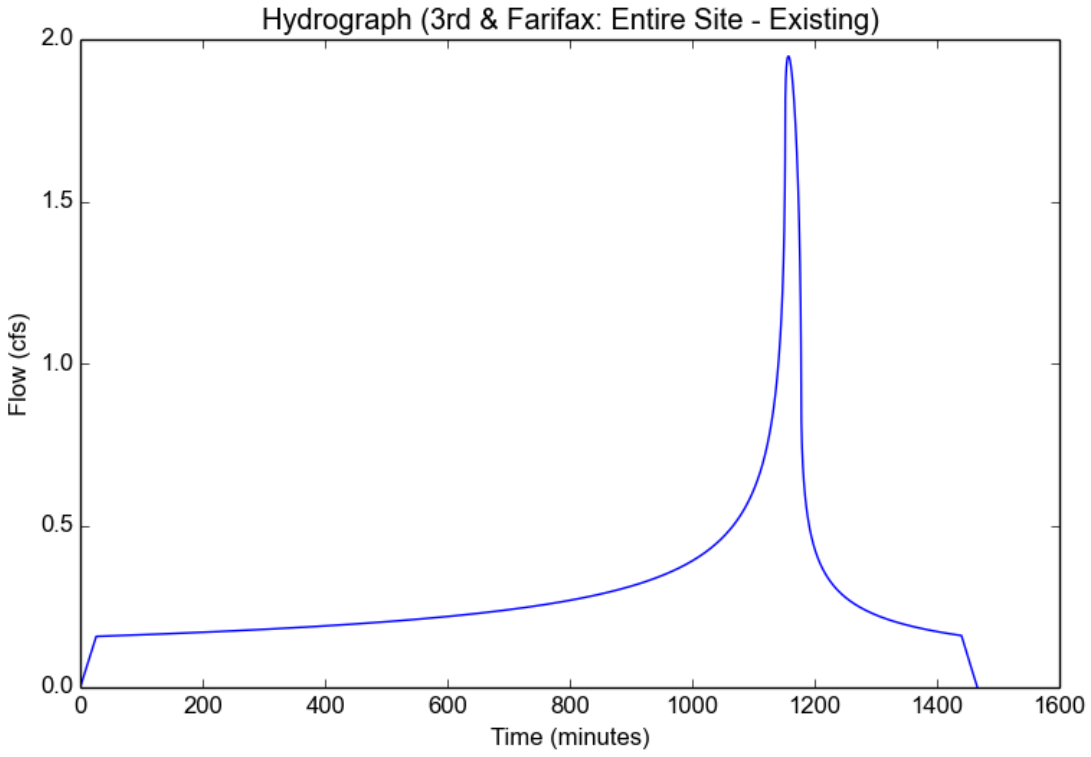
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Farifax - Entire Site - Existing - 85th.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Farifax
Subarea ID	Entire Site - Existing
Area (ac)	7.1
Flow Path Length (ft)	660.0
Flow Path Slope (vft/hft)	0.009
85th Percentile Rainfall Depth (in)	1.15
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.15
Peak Intensity (in/hr)	0.3161
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.868
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	1.9483
Burned Peak Flow Rate (cfs)	1.9483
24-Hr Clear Runoff Volume (ac-ft)	0.5857
24-Hr Clear Runoff Volume (cu-ft)	25514.2115



Peak Flow Hydrologic Analysis

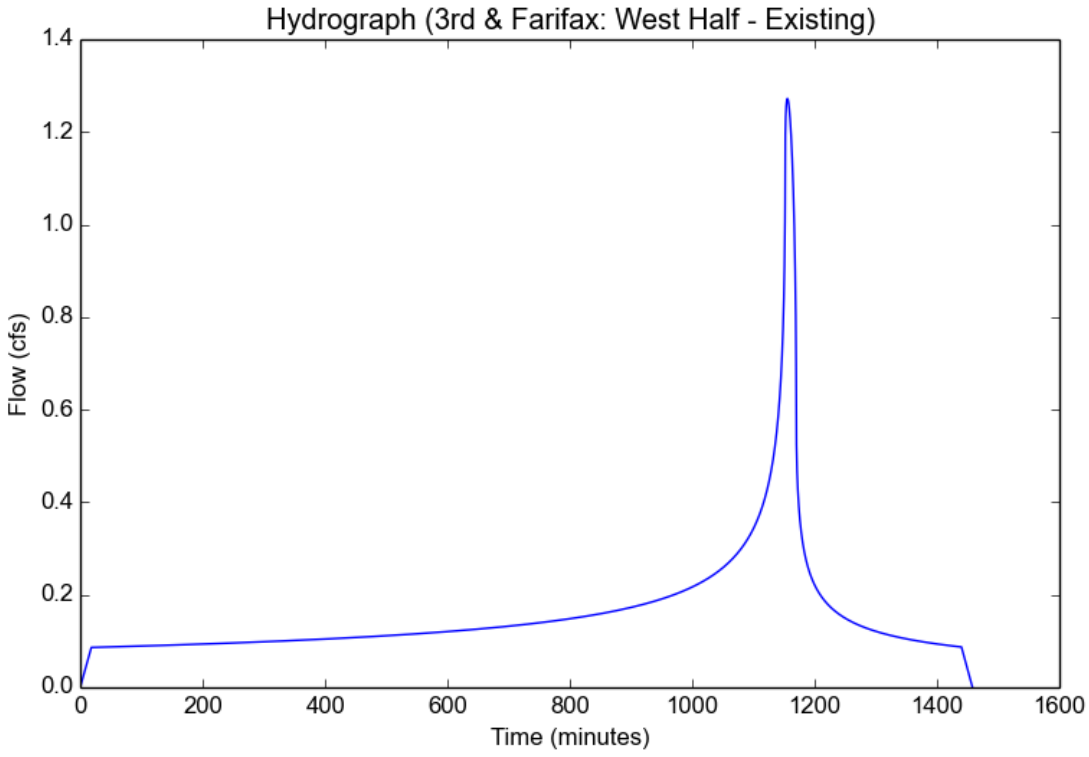
File location: C:/Users/Owner/Documents/Documents/Geocon/3rd & Fairfax/LA County DPW/3rd & Farifax - West Half - Existing - 85.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	3rd & Farifax
Subarea ID	West Half - Existing
Area (ac)	3.9
Flow Path Length (ft)	350.0
Flow Path Slope (vft/hft)	0.0086
85th Percentile Rainfall Depth (in)	1.15
Percent Impervious	0.96
Soil Type	13
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.15
Peak Intensity (in/hr)	0.3758
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.868
Time of Concentration (min)	18.0
Clear Peak Flow Rate (cfs)	1.2721
Burned Peak Flow Rate (cfs)	1.2721
24-Hr Clear Runoff Volume (ac-ft)	0.3217
24-Hr Clear Runoff Volume (cu-ft)	14014.7855



APPENDIX C

APPENDIX C

LACDPW LID STORMWATER QUALITY CONTROL MEASURES TO BE USED AT THE PROPOSED PROJECT

RET-6: Rain Barrel/Cistern



Description

Rain barrels and cisterns are containers that collect and store precipitation from rooftop drainage systems that would otherwise be lost to stormwater runoff and diverted to the storm drain system or receiving water. Collection of this precipitation reduces the volume of stormwater runoff and reduces the mobilization of potential pollutants.

Rain barrels are placed above ground beneath a shortened downspout next to a home or building and typically range in size from 50 to 180 gallons. Cisterns are larger storage tanks that may be located above or below ground. Both cisterns and rain barrels rely on gravity flow, not pumping devices. Rain barrels are equipped with a removable cover to allow access for maintenance, a screened inlet opening to trap debris and exclude vectors, an outlet spigot typically fitted for garden hose attachment, and an overflow outlet with discharge pipe or hose. Stored precipitation is typically used for landscape irrigation, but may also be used for washing. Water stored in rain barrels and cisterns should not be discharged to the storm drain system.

A schematic of a typical rain barrel is presented in Figure E-6.

LID Ordinance Requirements

Rain barrels and cisterns may be used to comply with the on-site retention requirements of the LID Ordinance for at least its tributary rooftop drainage area. The remaining project site SWQDv may need to be routed to other stormwater quality control measures for on-site retention. Rain barrels and cisterns will prevent pollutants in the SWQDv in its tributary rooftop drainage area from being discharged off-site.

Advantages

- Has a low installation cost
- Has a small footprint
- Reduces stormwater runoff volume and pollutant discharge
- Conserves water usage
- Is easy to maintain

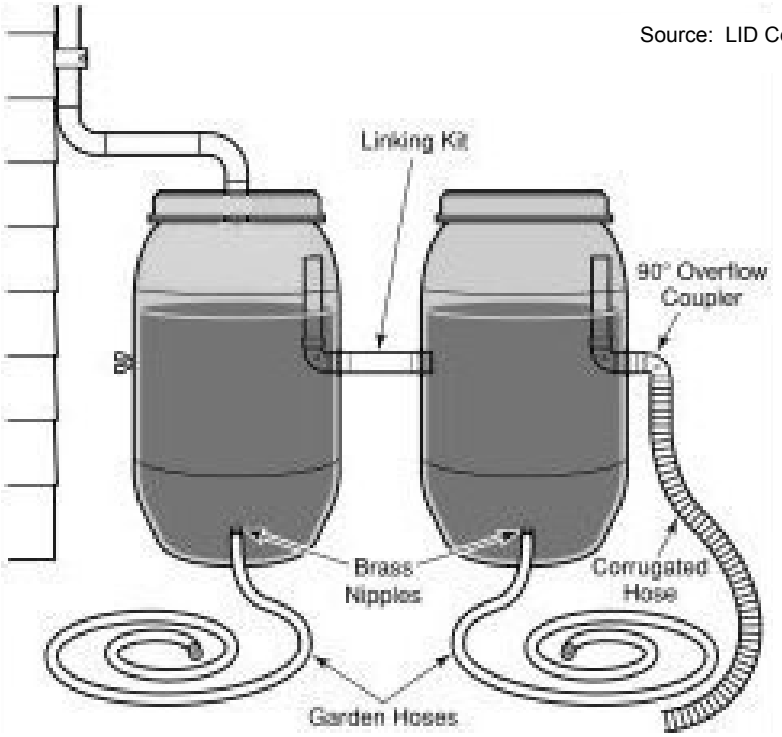


Figure E-6. Rain Barrel Schematic

Disadvantages

- May have limited storage volume
- Collects water that is not suitable for human or pet consumption or contact with fruits/vegetables
- May not be compatible with site aesthetics
- May result in standing water, which may allow vector breeding if not properly covered and maintained
- Requires individual owners/tenants to perform maintenance and empty rain barrels between storms

General Constraints and Implementation Considerations

- Rain barrels and cisterns should be located to allow for easy access and maintenance.
- Rain barrels should be elevated above the ground surface with a sturdy platform to provide spigot clearance.
- Screens or deflectors on rain gutters should be installed to minimize discharge of debris to rain barrels.
- Overflow from cisterns must be directed away from building foundations and to vegetated areas.

Maintenance Requirements

Maintenance and regular inspections are important for proper function of rain barrels and cisterns. Maintenance requirements for rain barrels are minimal and consist only of regular inspection of the unit as a whole and any of its constituent parts and accessories. The following are general maintenance requirements:

- Inspect all components (i.e., roof connection, gutter, downspout, rain barrel/cistern, mosquito screen, overflow pipe) at least twice per year, and repair or replace as needed.
- Clean insect and debris screens as needed.
- Eliminate standing water to prevent vector breeding.

A summary of potential problems that may need to be addressed by maintenance activities is presented in Table E-11.

The County requires execution of a maintenance agreement to be recorded by the property owner for the on-going maintenance of any privately-maintained stormwater quality control measures. The property owner is responsible for compliance with the maintenance agreement. A sample maintenance agreement is presented in Appendix H.

Table E-11: Rain Barrel/Cistern Troubleshooting Summary

Problem	Conditions When Maintenance Is Needed	Maintenance Required
Vector Breeding	Standing water longer than 96 hours after storm event	Empty rain barrel/cistern. Inspect insect screen to determine if it needs to be replaced.
Obstructions	Flow into rain barrel/cistern impeded	Remove obstructions.
Leaks	Leaks observed at roof connection, gutter, downspout, overflow pipe	Replace or repair components as needed. Replace entire rain barrel/cistern if necessary.

VEG-2: Stormwater Planter

Description



A stormwater planter is a stormwater quality control measure that is completely contained within an impermeable structure with an underdrain. Stormwater planters function as a soil- and plant-based filtration device that remove pollutants though a variety of physical, biological, and chemical treatment processes. A stormwater planter consists of a ponding area, mulch layer, planting soils, plantings, and an underdrain within the planter box. As stormwater runoff passes through the planting soil, pollutants are filtered, adsorbed, and biodegraded by the soil and plants. Stormwater planters are typically planted with native, drought-tolerant vegetation that does not require fertilization and can withstand wet soils for at least 96 hours.

Stormwater planters may be placed adjacent to or near buildings, other structures, or sidewalks. Stormwater planters can be used directly adjacent to buildings beneath downspouts as long as the planters are properly lined on the building side and the overflow outlet discharges away from the building to ensure water does not percolate into footings or foundations. They can also be placed further away from buildings by conveying roof runoff in shallow engineered open conveyances, shallow pipes, or other innovative drainage structures.

A schematic of a typical stormwater planter is presented in Figure E-9.

LID Ordinance Requirements

Stormwater planters can be used as a stormwater quality control measure to treat stormwater runoff for the following alternative compliance measures:

- Off-site infiltration;
- Groundwater replenishment projects; and
- Off-site retrofit of existing development.

The project applicant must ensure that all pollutants of concern are addressed when using a stormwater planter (see Section 7.4). The following table identifies the pollutants of concern that are treated to the water quality benchmark (see Table 7-2 of the LID Standards Manual) by a stormwater planter:

Pollutant of Concern	Treated by Stormwater Planters?
Suspended solids	No
Total phosphorus	No
Total nitrogen	Yes
Total Kjeldahl nitrogen	Yes
Cadmium, total	No
Chromium, total	Yes
Copper, total	No
Lead, total	Yes
Zinc, total	No

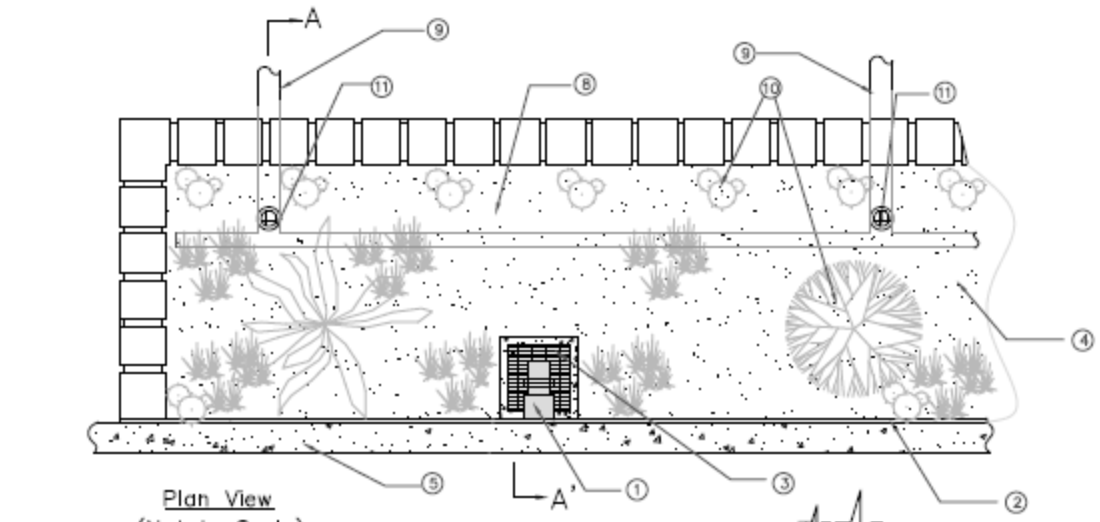
Source: Treatment Best Management Practices Performance, Los Angeles Regional Water Quality Control Board, December 9, 2013.

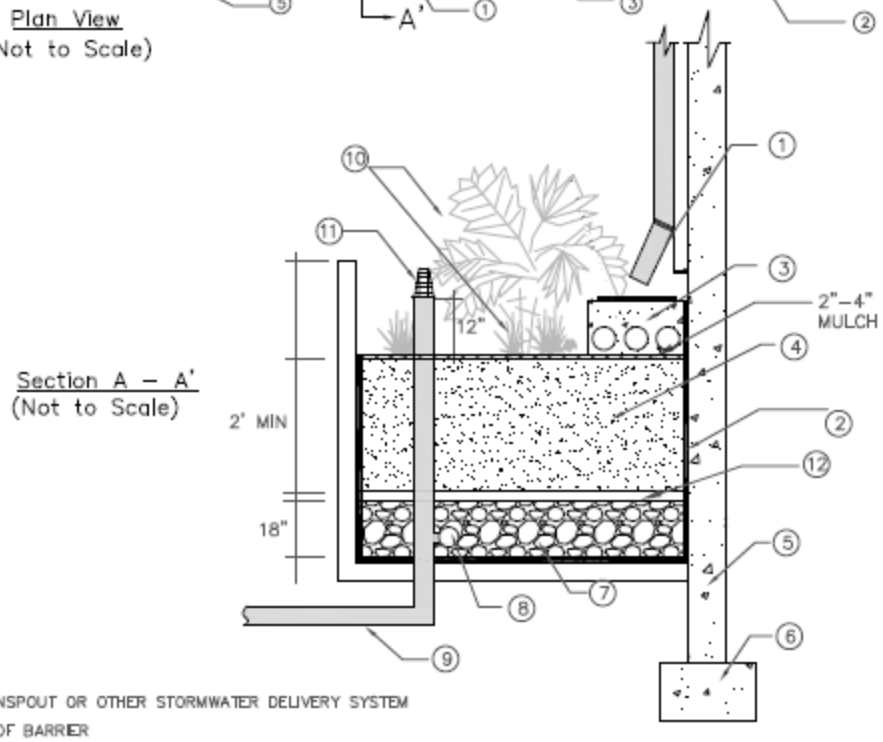
Advantages

- Has a low cost when integrated into site landscaping
- Can be useful for disconnecting downspouts
- Requires little space
- Is suitable for parking lots and sites with limited open area available for stormwater runoff treatment
- Reduces peak flows during small storm events
- Enhances site aesthetics
- May conserve water
- Requires little maintenance

Disadvantages

- May not be appropriate for industrial sites or locations with contaminated soils or where spills may occur because of the potential threat to groundwater contamination
- Is not suitable for areas with steep slopes
- Requires irrigation, which may conflict with water conservation ordinances or landscape requirements, to maintain vegetation
- May result in potentially increased cost due to waterproofing exterior building walls, if needed





NOTES:

1. ROOF DOWNSPOUT OR OTHER STORMWATER DELIVERY SYSTEM
2. WATERPROOF BARRIER
3. SHALLOW ENERGY DISSIPATOR BASIN DISPERSES FLOW AT SOIL SURFACE
4. SOIL MIX (SEE PLANTING MEDIA SECTION)
5. BUILDING
6. FOUNDATION. INSTALL FOUNDATION DRAINS AS NEEDED
7. GRAVEL BEDDING (SEE UNDERDRAIN)
8. PERFORATED PIPE SHALL RUN ENTIRE LENGTH OF PLANTER
9. CONNECTION TO DOWNSTREAM CONVEYANCE SYSTEM
10. PLANTS
11. SET OVERFLOW 2" BELOW THE TOP OF THE PLANTER
12. OPTIONAL CHOKING GRAVEL LAYER

Figure E-9. Stormwater Planter Schematic

General Constraints and Implementation Considerations

- Stormwater planters are suitable for smaller tributary areas such as urban infill projects.
- Stormwater planters can be integrated into other landscaping areas.
- For stormwater planters next to buildings, waterproofing of exterior building walls must be provided as directed by an architect or structural engineer.
- The site topography must be relatively flat.
- During construction activities should avoid compaction of native soils below planting media layer or gravel zone.
- Stormwater runoff must be diverted around the stormwater planter during the period of vegetation establishment. If diversion is not feasible, the graded and seeded areas must be protected with suitable sediment controls (i.e., silt fences).
- All damaged areas should be repaired, seeded, or re-planted immediately.
- The general landscape irrigation system should incorporate the stormwater planter, as applicable.

Design Specifications

The following sections describe the design specifications for stormwater planters.

Geotechnical

Due to the potential to contaminate groundwater, cause slope instability, impact surrounding structures, and potential for insufficient infiltration capacity, an extensive geotechnical site investigation must be conducted during the site planning process to verify site suitability for a stormwater planter. All geotechnical investigations must be performed according to the most recent GMED Policy GS 200.1. Soil infiltration rates and the groundwater table depth must be evaluated to ensure that conditions are satisfactory for proper operation of a stormwater planter. The project applicant must demonstrate through infiltration testing, soil logs, and the written opinion of a licensed civil engineer that sufficiently permeable soils exist on-site to allow the construction of a properly functioning stormwater planter.

Geometry

- The minimum soil depth should be 12 to 18 inches. The minimum soil depth is required to provide a beneficial root zone for the chosen vegetation and adequate storage capacity for stormwater runoff. A deeper planting soil depth will provide a smaller surface area footprint.
- The minimum stormwater planter width is 30 inches.
- Any stormwater planter shape configuration is possible as long as the other design specifications are met.

- The distance between the downspouts and the overflow outlet should be maximized in order to increase the opportunity for stormwater runoff retention and filtration.

Sizing

Stormwater planters are sized using a simple sizing method where the SWQDv must be completely filtered within 96 hours. If the incoming stormwater runoff flow rate is lower than the long term filtration rate, above ground storage does not need to be provided. If the incoming stormwater runoff flow rate is higher than the long term filtration rate, above ground storage shall be provided (see steps below).

Step 1: Calculate the design volume

Stormwater planters areas should be sized to capture and treat the SWQDv (see Section 6 for SWQDv calculation procedures) that is not reliability retained on the project site, as calculated by the equation below:

$$V_{SP} = \mathrm{SWQDv} - \mathrm{V_r}$$

Where:

V_{SP} = Biofiltration volume [ft^3];
SWQDv = Stormwater quality design volume [ft^3]; and
V_R = Volume of stormwater runoff reliably retained on-site [ft^3].

Step 2: Calculate the design infiltration rate

Determine the corrected in-situ infiltration rate (f_{design}) of the native soil using the procedures described in the most recent GMED Policy GS 200.1.

Step 3: Calculate the surface area

Select a surface ponding depth (d) that satisfies the geometric criteria and meets the site constraints. Selecting a deeper ponding depth (up to 1.5 ft) generally yields a smaller footprint, however, it will require greater consideration for public safety, energy dissipation, and plant selection.

Calculate the time for the selected ponding depth to filter through the planting media using the following equation:

$$t_p = \frac{d}{\left(\frac{f_{design}}{12}\right)}$$

Where:

t_p = Required detention time for surface ponding (max 96 hr) [hr];
d = Ponding depth (max 1.5 ft) [ft]; and
f_{design} = Design infiltration rate [in/hr].

If t_p exceeds 96 hours, reduce surface ponding depth (d). In nearly all cases, t_p should not approach 96 hours unless f_{design} is low.

Calculate the required infiltrating surface (filter bottom area) using the following equation:

$$A = \frac{V_B}{d}$$

Where:

A = Bottom surface area of biofiltration area [ft^2];
V_B = Biofiltration design volume [ft^3]; and
d = Ponding depth (max 1.5 ft) [ft].

Flow Entrance and Energy Dissipation

The following types of flow entrance can be used for stormwater planters:

- Piped entrances, such as roof downspouts, should include rock, splash blocks, or other erosion controls at the entrance to dissipate energy and disperse flows.
- Woody plants (trees, shrubs, etc.) can restrict or concentrate flows and can be damaged by erosion around the root ball and must not be placed directly in the entrance flow path.

Drainage

Stormwater planters must be designed to drain below the planting soil depth in less than 96 hours. Soils must be allowed to dry out periodically in order to restore hydraulic capacity to receive stormwater runoff from subsequent storm events, maintain infiltration rates, maintain adequate soil oxygen levels for healthy soil biota and vegetation, and provide proper soil conditions for biodegradation and retention of pollutants.

Underdrain

Stormwater planters require an underdrain to collect and discharge stormwater runoff that has been filtered through the soil media, but not infiltrated, to another stormwater quality control measure, storm drain system, or receiving water. The underdrain shall have a mainline diameter of eight inches using slotted PVC SDR 26 or PVC C9000. Slotted PVC allows for pressure water cleaning and root cutting, if necessary. The slotted pipe should have two to four rows of slots cut perpendicular to the axis of the pipe or at right angles to the pitch of corrugations. Slots should be 0.04 to 0.1 inches

wide with a length of 1 to 1.25 inches. Slots should be longitudinally-spaced such that the pipe has a minimum of one square inch opening per lineal foot and should face down.

The underdrain should be placed in a gravel envelope (Class 2 Permeable Material per Caltrans Spec. 68-1.025) that measures three feet wide and six inches deep. The underdrain is elevated from the bottom of the stormwater planter by six inches within the gravel envelope to create a fluctuating anaerobic/aerobic zone below the underdrain to facilitate denitrification within the anaerobic/anoxic zone and reduce nutrient concentrations. The top and sides of the underdrain pipe should be covered with gravel to a minimum depth of 12 inches. The underdrain and gravel envelope should be covered with a geomembrane liner to prevent clogging. The following aggregate should be used for the gravel envelope:

Particle Size (ASTM D422)	% Passing by Weight
¾ inch	100%
¼ inch	30-60%
#8	20-50%
#50	3-12%
#200	0-1%

Underdrains should be sloped at a minimum of 0.5 percent, and must drain freely to an acceptable discharge point.

Rigid non-perforated observation pipes with a diameter equal to the underdrain diameter should be connected to the underdrain to provide a clean-out port as well as an observation well to monitor drainage rates. The wells/clean-outs should be connected to the perforated underdrain with the appropriate manufactured connections. The wells/clean-outs should extend six inches above the top elevation of the stormwater planter mulch, and should be capped with a lockable screw cap. The ends of underdrain pipes not terminating in an observation well/clean-out should also be capped.

Hydraulic Restriction Layer

A geomembrane liner may be placed between the planting media and the drain rock. If a geomembrane liner is used, it should meet a minimum permittivity rate of 75 gal/min/ft^2 and should not impede the infiltration rate of the soil media. The geomembrane liner must meet the minimum requirements presented in Table E-16.

Table E-16 Geomembrane Liner Specifications for Stormwater Planters

Parameter	Test Method	Specification
Trapezoidal Tear	ASTM D4533	40 lbs (minimum)
Permeability	ASTM D4491	0.2 cm/sec (minimum)
AOS (sieve size)	ASTM D4751	#60 – #70 (minimum)
Ultraviolet Resistance	ASTM D4355	>70%

Preferably, aggregate should be used in place of a geomembrane layer to reduce the potential for clogging. This aggregate layer should consist of two to four inches of washed sand underlain with two inches of choking stone (typically #8 or #89 washed).

Vegetation

Prior to installation, a licensed landscape architect must certify that all plants, unless otherwise specifically permitted, conform to the standards of the current edition of American Standard for Nursery Stock as approved by the American Standards Institute, Inc. All plant grades shall be those established in the current edition of American Standards for Nursery Stock.

- Shade trees must have a single main trunk. Trunks must be free of branches below the following heights:

CALIPER (in)	Height (ft)
1½-2½	5
3	6

- Plants must be tolerant of summer drought, ponding fluctuations, and saturated soil conditions for up to 96 hours.
- It is recommended that a minimum of three types of tree, shrubs, and/or herbaceous groundcover species be incorporated to protect against facility failure due to disease and insect infestations of a single species.
- Native plant species and/or hardy cultivars that are not invasive and do not require chemical inputs must be used to the maximum extent practicable.

The stormwater planter should be vegetated to resemble a terrestrial forest community ecosystem, which is dominated by understory trees, a shrub layer, and herbaceous ground cover. Stormwater planters should be planted to cover at least 50 percent of the planter surface. Select vegetation that:

- Is suited to well-drained soil;
- Will be dense and strong enough to stay upright, even in flowing water;
- Has minimum need for fertilizers;

- Is not prone to pests and is consistent with Integrated Pest Management practices; and
- Is consistent with local water conservation ordinance requirements.

Irrigation System

Provide an irrigation system to maintain viability of vegetation, if applicable. The irrigation system must be designed to local code or ordinance specifications.

Planter Walls

Planter walls must be made of stone, concrete, brick, clay, plastic, wood, or other stable, permanent material. The use of pressure-treated wood or galvanized metal at or around a stormwater planter is prohibited.

Overflow Device

An overflow device is required at the 18-inch ponding depth. The following, or equivalent, should be provided:

- A vertical PVC pipe (SDR 26) to act as an overflow riser.
- The overflow riser(s) should be eight inches or greater in diameter, so it can be cleaned without damage to the pipe.
- The inlet to the riser should be a maximum of 18 inches above the planting soil, and be capped with a spider cap to exclude floating mulch and debris. Spider caps should be screwed in or glued (e.g., not removable). The overflow device should convey stormwater runoff in excess of the SWQDv to an approved discharge location (another stormwater quality control measure, storm drain system, or receiving water).

Maintenance Requirements

Maintenance and regular inspections are important for proper function of stormwater planters. Stormwater planters require annual plant, soil, and mulch layer maintenance to ensure optimal infiltration, storage, and pollutant removal capabilities. In general, stormwater planter maintenance requirements are typical landscape care procedures and include:

- Irrigate plants as needed during prolonged dry periods. In general, plants should be selected to be drought-tolerant and not require irrigation after establishment (two to three years).
- Inspect flow entrances, ponding area, and surface overflow areas periodically, and replace soil, plant material, and/or mulch layer in areas if erosion has occurred. Properly-designed facilities with appropriate flow velocities should not cause erosion except potentially during in extreme events. If erosion occurs, the flow velocities and gradients within the stormwater planter and flow dissipation

and erosion protection strategies in the flow entrance should be reassessed. If sediment is deposited in the stormwater planter, identify the source of the sediment within the tributary area, stabilize the source, and remove excess surface deposits.

- Prune and remove dead plant material as needed. Replace all dead plants, and if specific plants have a high mortality rate, assess the cause and, if necessary, replace with more appropriate species.
- Remove weeds as needed until plants are established. Weed removal should become less frequent if the appropriate plant species are used and planting density is attained.
- Select the proper soil mix and plants for optimal fertility, plant establishment, and growth to preclude the use of nutrient and pesticide supplements. By design, stormwater planters are located in areas where phosphorous and nitrogen levels are often elevated such that these should not be limiting nutrients. Addition of nutrients and pesticides may contribute pollutant loads to receiving waters.
- Analyze soil for fertility and pollutant levels if necessary. Stormwater planter soil media are designed to maintain long-term fertility and pollutant processing capability.
- Excavate and clean the stormwater planter if it does not drain within 96 hours after a storm event. Replace stormwater planter soil media as needed to improve the infiltration rate.
- Eliminate standing water to prevent vector breeding.
- Inspect, and clean if necessary, the underdrain.
- Inspect overflow devices for obstructions or debris, which should be removed immediately. Repair or replace damaged pipes upon discovery.
- Repair structural deficiencies to the stormwater planter including rot, cracks, and failure.
- Implement Integrated Pest Management practices if pests are present in the stormwater planter.
- Provide training and/or written guidance to all property owners and tenants. Provide a copy of the Maintenance Plan to all property owners and tenants.

A summary of potential problems that may need to be addressed by maintenance activities is presented in Table E-17.

The County requires execution of a maintenance agreement to be recorded by the property owner for the on-going maintenance of any privately-maintained stormwater quality control measures. The property owner is responsible for compliance with the maintenance agreement. A sample maintenance agreement is presented in Appendix H.

Table E-17. Stormwater Planter Troubleshooting Summary

Problem	Conditions When Maintenance Is Needed	Maintenance Required
Vegetation	Overgrown vegetation	Mow and prune vegetation as appropriate.
	Presence of invasive, poisonous, nuisance, or noxious vegetation or weeds	Remove this vegetation and plant native species as needed.
Trash and Debris	Trash, plant litter, and dead leaves present	Remove and properly dispose of trash and debris.
Irrigation (if applicable)	Not functioning correctly	Check irrigation system for clogs or broken lines and repair as needed.
Inlet/Overflow	Inlet/overflow areas clogged with sediment and/or debris	Remove material. Ensure the downspout is clear of debris.
	Overflow pipe blocked or broken	Repair as needed.
Erosion/Sediment Accumulation	Splash pads or spreader incorrectly placed Presence of erosion or sediment accumulation	Check inlet structure to ensure proper function. Repair, or replace if necessary, the inlet device. Repair eroded areas with gravel as needed. Re-grade the stormwater planter as needed.
Contaminants and Pollution	Any evidence of oil, gasoline, contaminants, or other pollutants	Remove any evidence of visual contamination from floatables such as oil and grease.
Standing water	Standing water observed more than 96 hours after storm event	Inspect, and clean as needed, the underdrain to ensure proper function. Clear clogs as needed. Remove and replace planter media (sand, gravel, topsoil, mulch) and vegetation.

VEG-3: Tree-Well Filter

Description



Source: Low Impact Development Center (top) and University of New Hampshire Stormwater Center (bottom)

A tree-well filter is similar to a biofiltration area and stormwater planters and consists of one or multiple chambered pre-cast concrete boxes with a small tree or shrub planted in a bed filled with soil media. Tree-well filters are typically installed along the edge of a parking lot or roadway, where a street tree might normally be planted, and is designed to receive, retain, and infiltrate stormwater runoff from adjoining paved areas. During storm events, stormwater runoff enters the chamber and gradually infiltrates and filters through the soil media into the underlying soil, or collected by an underdrain system.

Treatment occurs through a variety of natural mechanisms as the stormwater runoff filters through the root zone of the vegetation and during detention of the stormwater runoff in the pore space of the soil media. A portion of stormwater runoff held in the root zone of the soil media is returned to the atmosphere through transpiration by the vegetation. Stormwater runoff that reaches the bottom of the tree-well filter and does not infiltrate into underlying soils is collected and discharged through an underdrain.

A schematic of a typical tree-well filter is presented in Figure E-10.

LID Ordinance Requirements

Tree-well filters can be used as a stormwater quality control measure to treat stormwater runoff for the following alternative compliance measures:

- Off-site infiltration;
- Groundwater replenishment projects; and
- Off-site retrofit of existing development.

The project applicant must ensure that all pollutants of concern are addressed when using a tree-well filter (see Section 7.4). The following table identifies the pollutants of concern that are treated to the water quality benchmark (see Table 7-2 of the LID Standards Manual) by tree-well filter:

Pollutant of Concern	Treated by Tree-Well Filter?
Suspended solids	No
Total phosphorus	No
Total nitrogen	Yes
Total Kjeldahl nitrogen	Yes
Cadmium, total	No
Chromium, total	Yes
Copper, total	No
Lead, total	Yes
Zinc, total	No

Source: Treatment Best Management Practices Performance, Los Angeles Regional Water Quality Control Board, December 9, 2013.

Advantages

- Enhances site aesthetics
- Integrates well with street landscapes
- Takes up very little space and may be ideal for highly-developed sites
- May be used in variety of site conditions
- Reduces stormwater runoff volume and pollutant discharge

Disadvantages

- May not be appropriate for industrial sites or locations with contaminated soils or where spills may occur because of the potential threat to groundwater contamination
- May require individual owners/tenants to perform maintenance
- Requires irrigation, which may conflict with water conservation ordinances for landscape requirements, to maintain vegetation

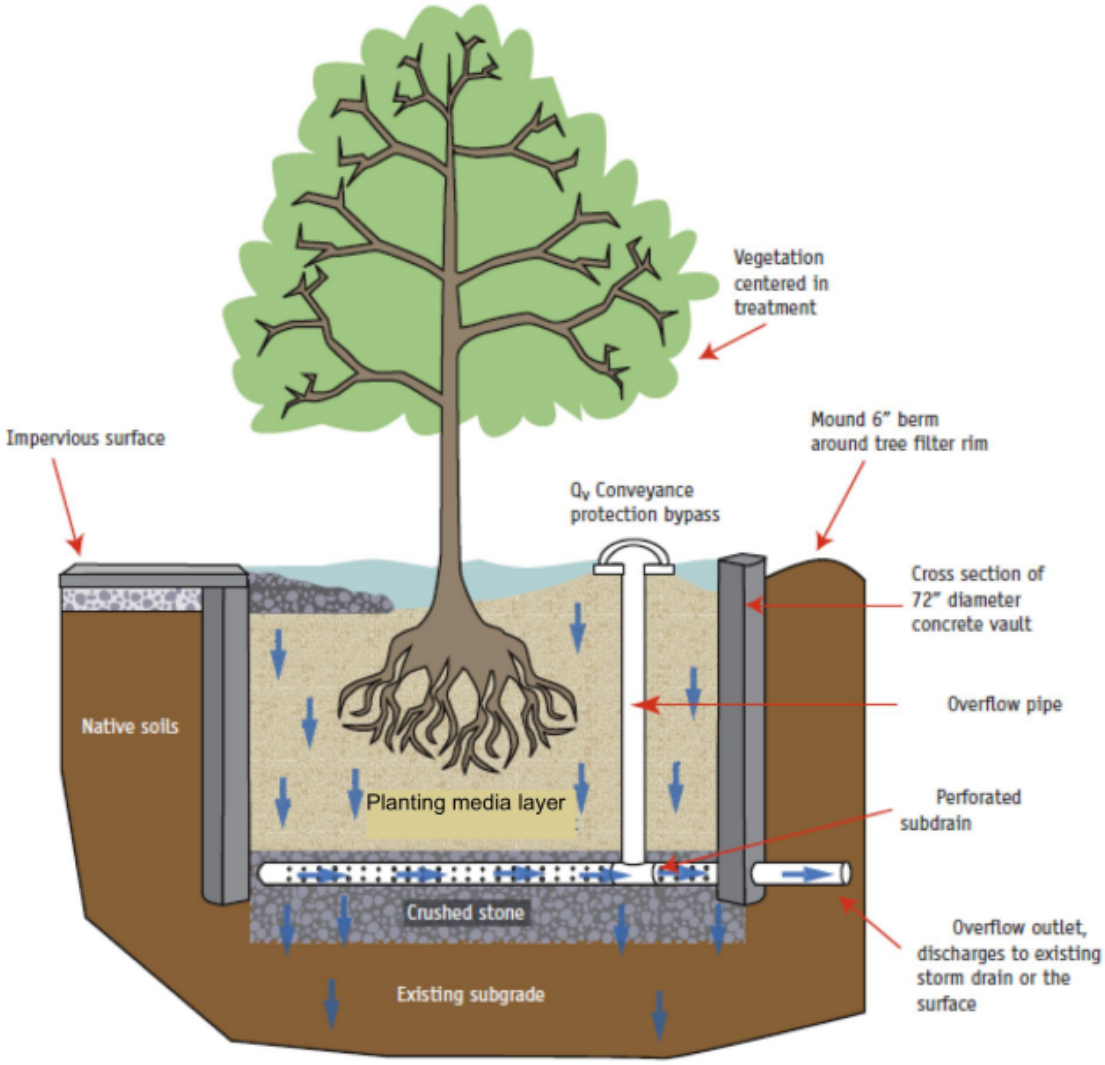


Figure E-10. Tree-Well Filter Schematic

General Constraints and Implementation Considerations

- Tree-well filters are ideally suited for small areas such as parking lot islands, perimeter building planters, street medians, roadside swale features, and site entrance or buffer features.
- Tree-well filters can be integrated into other landscape areas. Tree-well filters can have a non-rectangular footprint to fit site landscape design.
- Tree-well filters should be placed where site topography is relatively flat to allow stormwater runoff to drain to it.
- Stormwater runoff must be diverted around the tree-well filter during the period of vegetation establishment. If diversion is not feasible, the graded and seeded areas should be protected with suitable erosion controls (i.e., silt fences).
- Areas to be used for tree-well filters should be clearly marked before site work begins to avoid soil disturbance and compaction during construction. No vehicular traffic, except that specifically used to construct the tree-well filter, should be allowed within ten feet of the tree-well filter areas.
- Repair, seed, or re-plant damaged areas immediately.
- The general landscape irrigation system should incorporate the tree-well filter, as applicable.

Design Specifications

The following sections describe the design specifications for tree-well filters.

Geotechnical

Due to the potential to contaminate groundwater, cause slope instability, and impact surrounding structures, and potential for insufficient infiltration capacity, an extensive geotechnical site investigation must be conducted during the site planning process to verify site suitability for a tree-well filter. All geotechnical investigations must be performed according to the most recent GMED Policy GS 200.1. Soil infiltration rates and the groundwater table depth must be evaluated to ensure that conditions are satisfactory for proper operation of a tree-well filter. The project applicant must demonstrate through infiltration testing, soil logs, and the written opinion of a licensed civil engineer that sufficiently permeable soils exist on-site to allow the construction of a properly functioning tree-well filter.

Tree-well filters are appropriate for soils with a minimum corrected in-situ infiltration rate of 0.3 in/hr. The geotechnical report must determine if the proposed project site is suitable for a tree-well filter and must recommend a design infiltration rate (see “Design Infiltration Rate” under the “Sizing” section). The geotechnical investigation should be such that a good understanding is gained as to how the stormwater runoff will move through the soil (horizontally or vertically) and if there are any geological conditions that could inhibit the movement of water.

Sizing

Tree-well filters are sized using a simple sizing method where the SWQDv must be completely filtered within 96 hours. If the incoming stormwater runoff flow rate is lower than the long term filtration rate, above ground storage does not need to be provided. If the incoming stormwater runoff flow rate is higher than the long term filtration rate, above ground storage shall be provided (see steps below).

Step 1: Calculate the design volume

Tree-well filter areas should be sized to capture and treat the SWQDv (see Section 6 for SWQDv calculation procedures) that is not reliability retained on the project site, as calculated by the equation below:

$$V_{SP} = \mathrm{SWQDv} - \mathrm{V_r}$$

Where:

V_{SP} = Biofiltration volume [ft^3];
SWQDv = Stormwater quality design volume [ft^3]; and
V_R = Volume of stormwater runoff reliably retained on-site [ft^3].

Step 2: Calculate the design infiltration rate

Determine the corrected in-situ infiltration rate (f_{design}) of the native soil using the procedures described in the most recent GMED Policy GS 200.1.

Step 3: Calculate the surface area

Select a surface ponding depth (d) that satisfies the geometric criteria and meets the site constraints. Selecting a deeper ponding depth (up to 1.5 ft) generally yields a smaller footprint, however, it will require greater consideration for public safety, energy dissipation, and plant selection.

Calculate the time for the selected ponding depth to filter through the planting media using the following equation:

$$t_p = \frac{d}{\left(\frac{f_{design}}{12}\right)}$$

Where:

t_p = Required detention time for surface ponding (max 96 hr) [hr];
d = Ponding depth (max 1.5 ft) [ft]; and
f_{design} = Design infiltration rate [in/hr].

If t_p exceeds 96 hours, reduce surface ponding depth (d). In nearly all cases, t_p should not approach 96 hours unless f_{design} is low.

Calculate the required infiltrating surface (filter bottom area) using the following equation:

$$A = \frac{V_B}{d}$$

Where:

A = Bottom surface area of biofiltration area [ft^2];
V_B = Biofiltration design volume [ft^3]; and
d = Ponding depth (max 1.5 ft) [ft].

Tree-well filters must be sized to capture and treat the SDWQv at a 18-inch maximum ponding depth acre.

The required surface area for the tree-well filter is determined from the SWQDv and ponding depth as follows:

$$A_s = \frac{SWQDv}{D_{pz}}$$

Where:

A_s = Surface area of tree-well filter [ft^2];
SWQDv = Stormwater quality design volume [ft^3]; and
D_{pz} = Average ponding depth (max 1.5 ft) [ft].

Flow Entrance and Energy Dissipation

The following types of flow entrance can be used for tree-well filters:

- Level spreaders (i.e., slotted curbs) can be used to facilitate sheet flow.
- Dispersed flow across pavement or gravel and past wheel stops for parking areas.
- Piped entrances, such as roof downspouts, should include rock, splash blocks, or other erosion controls at the entrance to dissipate energy and disperse flows.
- Curb cuts for roadside or parking lot areas, if approved by LACDPW: curb cuts should include rock or other erosion controls in the channel entrance to dissipate energy. Flow entrance should drop two to three inches from curb line and provide an area for settling and periodic removal of sediment and coarse material before flow dissipates to the remainder of the tree-well filter.

Drainage

Tree-well filters must be designed to drain below the planting soil depth in less than 96 hours. Soils must be allowed to dry out periodically in order to restore hydraulic capacity to receive stormwater runoff from subsequent storm events, maintain infiltration rates, maintain adequate soil oxygen levels for healthy soil biota and vegetation, and provide proper soil conditions for biodegradation and retention of pollutants.

Underdrain

Tree-well filters require an underdrain to collect and discharge stormwater runoff that has been filtered through the soil media, but not infiltrated, to another stormwater quality control measure, storm drain system, or receiving water. The underdrain shall have a mainline diameter of eight inches using slotted PVC SDR 26 or PVC C9000. Slotted PVC allows for pressure water cleaning and root cutting, if necessary. The slotted pipe should have two to four rows of slots cut perpendicular to the axis of the pipe or at right angles to the pitch of corrugations. Slots should be 0.04 to 0.1 inches wide with a length of 1 to 1.25 inches. Slots should be longitudinally-spaced such that the pipe has a minimum of one square inch opening per lineal foot and should face down.

The underdrain should be placed in a gravel envelope (Class 2 Permeable Material per Caltrans Spec. 68-1.025) that measures three feet wide and six inches deep. The underdrain is elevated from the bottom of the tree-well filter by six inches within the gravel envelope to create a fluctuating anaerobic/aerobic zone below the underdrain to facilitate denitrification within the anaerobic/anoxic zone and reduce nutrient concentrations. The top and sides of the underdrain pipe should be covered with gravel to a minimum depth of 12 inches. The underdrain and gravel envelope should be covered with a geomembrane liner to prevent clogging. The following aggregate should be used for the gravel envelope:

Particle Size (ASTM D422)	% Passing by Weight
¾ inch	100%
¼ inch	30-60%
#8	20-50%
#50	3-12%
#200	0-1%

Underdrains should be sloped at a minimum of 0.5 percent, and must drain freely to an acceptable discharge point.

Rigid non-perforated observation pipes with a diameter equal to the underdrain diameter should be connected to the underdrain to provide a clean-out port as well as an observation well to monitor drainage rates. The wells/clean-outs should be connected to the perforated underdrain with the appropriate manufactured connections. The wells/clean-outs should extend six inches above the top elevation of the tree-well

filter mulch, and should be capped with a lockable screw cap. The ends of underdrain pipes not terminating in an observation well/clean-out should also be capped.

Hydraulic Restriction Layer

A geomembrane liner may be placed between the planting media and the drain rock. If a geomembrane liner is used, it should meet a minimum permittivity rate of 75 gal/min/ft^2, should not impede the infiltration rate of the soil medium. The geomembrane liner must meet the minimum requirements presented in Table E-18.

Table E-18. Geomembrane Liner Specifications for Tree-Well Filters

Parameter	Test Method	Specification
Trapezoidal Tear	ASTM D4533	40 lbs (minimum)
Permeability	ASTM D4491	0.2 cm/sec (minimum)
AOS (sieve size)	ASTM D4751	#60 – #70 (minimum)
Ultraviolet Resistance	ASTM D4355	>70%

Preferably, aggregate should be used in place of a geomembrane layer to reduce the potential for clogging. This aggregate layer should consist of two to four inches of washed sand underlain with two inches of choking stone (typically #8 or #89 washed).

Vegetation

Select a tree that:

- Is suited to well-drained soil;
- Will be dense and strong enough to stay upright, even in flowing water;
- Has minimum need for fertilizers;
- Is not prone to pests and is consistent with Integrated Pest Management practices;
- Will withstand being inundated for periods of time; and
- Is consistent with local water conservation ordinance requirements.

Irrigation System

Provide an irrigation system to maintain viability of vegetation, if applicable. The irrigation system must be designed to local code or ordinance specifications.

Overflow Device

An overflow device is required at the 18-inch ponding depth. The following, or equivalent, should be provided:

- A vertical PVC pipe (SDR 26) to act as an overflow riser.

- The overflow riser(s) should be eight inches or greater in diameter, so it can be cleaned without damage to the pipe.
- The inlet to the riser should be a maximum of 18 inches above the planting soil, and be capped with a spider cap to exclude floating mulch and debris. Spider caps should be screwed in or glued (e.g., not removable). The overflow device should convey stormwater runoff in excess of the SWQDv to an approved discharge location (another stormwater quality control measure, storm drain system, or receiving water).

Maintenance Requirements

Maintenance and regular inspections are important for proper function of tree-well filters. Tree-well filters require annual plant, soil, and mulch layer maintenance to ensure optimal infiltration, storage, and pollutant removal capabilities. In general, tree-well filter maintenance requirements are typical landscape care procedures and include:

- Irrigate tree as needed. In general, trees should be selected to be drought-tolerant.
- Inspect flow entrances, ponding area, and surface overflow areas periodically, and replace soil, plant material, and/or mulch layer in areas if erosion has occurred. Properly designed facilities with appropriate flow velocities should not cause erosion except potentially during in extreme events. If erosion occurs, the flow velocities and gradients within the tree-well filter and flow dissipation and erosion protection strategies in the flow entrance should be reassessed. If sediment is deposited in the tree-well filter, identify the source of the sediment within the tributary area, stabilize the source, and remove excess surface deposits.
- Prune the tree as needed.
- Remove weeds in the tree-well filter.
- Select the proper soil mix and plants for optimal fertility, tree establishment, and growth to preclude the use of nutrient and pesticide supplements. By design, tree-well filters are located in areas where phosphorous and nitrogen levels are often elevated such that these should not be limiting nutrients. Addition of nutrients and pesticides may contribute pollutant loads to receiving waters.
- Analyze soil for fertility and pollutant levels if necessary. Soil mixes for tree-well filters are designed to maintain long-term fertility and pollutant processing capability.
- Excavate and clean the tree-well filter if it does not drain within 96 hours after a storm event. Replace tree-well filter soil media as needed to improve the infiltration rate.
- Eliminate standing water to prevent vector breeding.
- Inspect, and clean if necessary, the underdrain.

- Inspect overflow devices for obstructions or debris, which should be removed immediately. Repair or replace damaged pipes upon discovery.
- Repair structural deficiencies to the tree-well filter including rot, cracks, and failure.
- Implement Integrated Pest Management practices if pests are present in the tree-well filter.

A summary of potential problems that may need to be addressed by maintenance activities is presented in Table E-19.

The County requires execution of a maintenance agreement to be recorded by the property owner for the on-going maintenance of any privately-maintained stormwater quality control measures. The property owner is responsible for compliance with the maintenance agreement. A sample maintenance agreement is presented in Appendix H.

Table E-19. Tree-Well Filter Troubleshooting Summary

Problem	Conditions When Maintenance Is Needed	Maintenance Required
Vegetation	Overgrown vegetation	Mow and prune vegetation as appropriate.
	Presence of invasive, poisonous, nuisance, or noxious vegetation or weeds	Remove this vegetation and plant native species as needed.
Trash and Debris	Trash, plant litter, and dead leaves present	Remove and properly dispose of trash and debris.
Irrigation (if applicable)	Not functioning correctly	Check irrigation system for clogs or broken lines and repair as needed.
Inlet/Overflow	Inlet/overflow areas clogged with sediment and/or debris	Remove material. Ensure the downspout is clear of debris.
	Overflow pipe blocked or broken	Repair as needed.
Erosion/Sediment Accumulation	Inlet structure incorrectly placed Presence of erosion or sediment accumulation	Check inlet structure to ensure proper function. Repair, or replace if necessary, the inlet device. Repair eroded areas with gravel as needed. Re-grade the tree-well filter as needed.
Contaminants and Pollution	Any evidence of oil, gasoline, contaminants, or other pollutants	Remove any evidence of visual contamination from floatables such as oil and grease.
Standing water	Standing water observed more than 96 hours after storm event	Inspect, and clean as needed, the underdrain to ensure proper function. Clear clogs as needed. Remove and replace tree-well filter media (sand, gravel, topsoil, mulch) and vegetation.