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City of Santa Clarita
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Attention: Mr. Hoon Hahn
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**FINAL REPORT**
**Results of Subsurface Investigations, Removal of Surface Pavement and Subsurface Foundations, and Removal of One In-ground Hydraulic Lift System at the Santa Clarita Old Town Newhall (OTN) Proposed Parking Structure**
**Northwest Corner of 9th Street and Railroad Avenue, Santa Clarita, California 91321**

## 1.0 INTRODUCTION

JHA Environmental, Inc. (JHA) is pleased to present this report of the subsurface investigations, removal of surface pavement and subsurface foundations, and removal of one in-ground lift system at the Santa Clarita Old Town Newhall (OTN) proposed Parking Structure, located at the northwest corner of 9th Street and Railroad Avenue, Santa Clarita, California (Site; Plate 1). The Site and the surrounding city block on the west and north are vacant but paved with concrete, asphalt, or ¾" rock. JHA understands there are plans to redevelop the Site as a parking structure which will be part of a new larger combined retail/residential development that will encompass the entire city block. At the beginning of this investigation, evidence of former onsite building walls, one in-ground hydraulic lift system, concrete slabs formerly used for vehicle frame straightening, a two-chamber slurry-filled clarifier (oil-water separator), an empty brick-sided seepage pit, and several concrete-sealed-at-the-surface drains and commodes were visible at surface pavement grade.

The Site is an approximate 27,000-square-foot area that encompasses most of the southern half of an entire city block (Plate 2). In general, the city block is bound on the east by Railroad Avenue, on the north by Lyons Avenue, on the west by Main Street (formerly San Fernando Road), and on the south by 9th Street in Newhall within the limits of the City of Santa Clarita. During redevelopment, JHA understands that the Site will be excavated to a depth of 14 feet below ground surface (bgs) for the future parking structure. As such and as outlined in the City's RFP/RFQ (dated March 1, 2016), the objective of this project was to identify subsurface features and/or impacted soil that could cause significant delays during future parking structure construction.

Field activities at the Site consisted of pavement removal; pre- and post-pavement geophysical surveys; potholing at identified and suspect geophysical anomalies to further investigate those anomalies; potholing at non-anomaly locations to better understand representative subsurface conditions; drilling/soil sampling/chemical analyses; removal of a single hydraulic lift system with associated soil sampling and laboratory analyses; and restoration. Work

was conducted by JHA (with pavement removal, loading, and offsite transport managed by our construction division, JHA Remediation) between March 28, 2016 and April 22, 2016 in accordance with our Proposal dated March 14, 2016. Additional pavement removal, potholing at locations where suspect waste oil tank disposal piping had been observed by JHA during the March 3, 2016 Job Walk, and other City-requested services were conducted as outlined in JHA's Change Order #1 dated April 18, 2016.

## 2.0 BACKGROUND - PRIOR SITE USAGE AND SUBSURFACE INVESTIGATIONS

JHA reviewed the results of two previous Phase II environmental assessments, two previous geotechnical investigations, and two grading plans/ALTA Land Title Survey for the entire city block of which the OTN Parking Structure is a part. The six documents (available online within the City's Project Bridging Documents website) are identified as follows:

- *Phase II Environmental Site Assessment & Subsurface Investigation Report* (dated February 28, 2008); prepared by Atkins Environmental H.E.L.P. (Santa Clarita, CA).
- *Phase II Environmental Site Assessment & Limited Subsurface Investigation Report* (dated November 5, 2015); prepared by Atkins Environmental H.E.L.P. (Santa Clarita, CA).
- *Geotechnical Investigations* (dated November 10, 2015) and prepared by Geocon West, Inc. (Burbank, CA).
- *Geotechnical Engineering Investigation Report* (dated November 14, 2007) and prepared by Rybak Geotechnical Inc. (Van Nuys, CA).
- *Due Diligence/Initial Site Investigation* (dated December 21, 2015); prepared by Sitetech, Inc. (Oak Glen, CA).
- *ALTA/ACSM Land Title Survey* (dated October 5, 2015); prepared by Sitetech, Inc. (Oak Glen, CA).

The entire city block was originally developed as a lumber yard from approximately 1918 to approximately 1948 (first by Newhall Lumber, then by Hammond Lumber). The entire city block was redeveloped and became primarily automotive with the Carroll Chevrolet dealership, auto rental business, offsite Insurance Auto Collision Center (22520 Lyons Avenue; in the north/central portions of the city block north of the Site); and onsite auto repair/body shop (Automotive Technology; 22515 9$^{th}$ Street). A former community center/Youth Center existed on the city block (24406 Main Street). Copies of historic aerial photographs (1" = 500' scale) are provided in Attachment A

In late August 2007, Atkins drilled seven (7) environmental soil borings at locations on the entire city block: six borings were north of the Site (B-1, B-2, B-3, B-5, B-6, and B-7 at 22520 Lyons Avenue) and one onsite boring (B-4 at 22515 9$^{th}$ Street; equivalent to Rybak geotechnical boring B10). Atkins onsite B-4 was drilled to a depth of 21.5 feet with environmental soil samples collected at depths of 5, 10, and 15 feet. Based on the absence of field evidence of petroleum hydrocarbon impacts, Atkins analyzed only the 5-foot soil sample. No hydrocarbon impacts were detected in this soil sample B-4-5'. Based on an 8-inch-diameter concrete patch observed by JHA at the beginning of our investigation, onsite B-4 was located approximately 15 feet east/northeast of the clarifier. Offsite impacted soil sample was detected in soil samples at offsite borings B-2 and B-7 with subsequent offsite soil borings drilled in early December 2007.

In early September 2007, Atkins conducted an onsite and offsite soil vapor survey at locations on the entire city block: nine soil vapor locations were north of the Site (SV-1 through

SV-9 at 22520 Lyons Avenue) and onsite SV-10 through SV-15 (at 22515 9th Street). The soil vapor samples were collected and analyzed at depths of 5 feet. Concurrently, Atkins collected soil samples adjacent to the soil vapor locations: offsite SS-1 through SS-9 and onsite SS-10 through SS-15. The depths of the soil samples were not reported by Atkins but are presumed to be near-surface and at similar 5-foot depths as the soil vapor samples.

No impacted soil vapor was detected onsite; however, onsite Soil Samples SS-13 through SS-15 showed low to moderately low concentrations of mid- to heavy-range petroleum hydrocarbons (total petroleum hydrocarbons as diesel [TPHd] and/or total petroleum hydrocarbons as oil [TPHo] as follows: TPHo at 104 milligrams per kilogram (mg/kg) at SS-13; TPHo at 77.1 mg/kg at SS-14; and TPHd at 53 mg/kg and TPHo at 1,140 mg/kg at SS-15.

In their November 2015 Phase II ESA for the entire city block, Atkins identified three (3) underground storage tanks (USTs) and one clarifier as follows: offsite UST-1 (a probable waste oil UST located offsite and north of the Site; JHA understands this UST-1 remains in-place offsite); onsite UST-2 (this is the hydraulic lift's reservoir tank that was removed on 4/7/2016 as documented herein and was formerly located in the southwest portion of the Site); UST-3 (detected using ground penetrating radar [GPR] and located along the Site's north-central border; as documented herein, the presence and dimensions of UST-3 were confirmed by potholing at the suspect location on 3/28/2016 (the tank remains in-place along the Site's north-central border); and an onsite slurry-filled, two-chamber clarifier (located in the southwest portion of the Site and which remains in-place onsite; JHA understands that the City of Santa Clarita pumped out the black, oily contents of the clarifier's two chambers and subsequently filled both chambers with slurry).

Based on information in the environmental and geotechnical reports, a total of five (5) prior soil borings were drilled at the Site: Rybak geotechnical boring B6 (late June 2006, in the southeast portion of the Site); Atkins' environmental boring B-4 (late August 2007, in the southwest portion of the Site; equivalent to Rybak geotechnical boring B10 and discussed above); and Atkins' environmental borings B-3, B-4, and B-5 in early October 5 (equivalent to Geocon geotechnical borings B-3, B-4, and B-5, respectively). Boring B-3 (Oct. 2015) appears to have been located onsite approximately 20 to 25 feet south/southwest of UST-3; Boring B-4 (Oct. 2015) was located in the southeast portion of the Site; and Boring B-5 (Oct. 2015) was located between the clarifier and the small former lift tank in the southwest portion of the Site.

Other environmental and geotechnical soil borings were drilled at locations within the city block but offsite (north and west of the Site). Groundwater was not encountered to a depth of 41.5 feet (maximum depth explored).

Of the 5 prior onsite soil borings, only soil from Boring B-5 (located between the clarifier and former small lift tank) showed any petroleum hydrocarbon impacts. Soil sample B-5-2.5' showed TPHo at 334 mg/kg, and soil sample B-5-20' showed TPHd at 60.9 mg/kg and TPHo at 290 mg/kg (the intervening 10-foot sample did not reveal any impacts). At this single onsite B-5 location, Geocon reported artificial fill to a depth of approximately 5 feet. This thickness of fill was confirmed by JHA as documented herein (see Section 4.3, below). Offsite impacted soil was detected in the northern portion of the city block and north of the Site.

## 3.0 MARCH & APRIL 2016 - ONSITE GEOPHYSICAL SURVEY WITH GLOBAL POSITIONING SATELLITE (GPS) LOCATIONS OF UTILITIES, SUBSTRUCTURES, AND OTHER GEOPHYSICAL ANOMALIES

On March 23, 2016, JHA notified Underground Services Alert (USA; Ticket #A60820403), requesting an onsite "Meet-and-Mark" at 7:30am March 28, 2016 for any responders that may have onsite public utilities. JHA received several "no conflict" emails and two responders showed up for the Meet-and-Mark: Utili-Quest and Southern California Gas. Both line-riders provided the onsite JHA representative with verbal "all clear" notices following the onsite Meet-and-Mark. The only entity that did not respond by March 28, 2016 was the Newhall County Water District (NCWD); however, they came to the Site on April 13, 2016 to pothole and locate their old abandoned 2-inch-diameter north-south oriented water line.

On March 28, April 11, and April 14, 2016, PC Locators (under contract to JHA) conducted a geophysical survey using GPR, electro-magnetic, and density-measuring instruments to identify detectable or conductive subsurface utilities and buried structures/features such as USTs, vaults, cellars, pavement, spread-footings, large rocks, and other debris. Detected subsurface utilities, structures, and anomalies with approximate depths (where obtained) were marked on the surface pavement by PC Locators using spray paint.

The initial survey was conducted on March 28, 2016 when the Site was still paved with concrete and asphalt. On the two remaining half-days (April 11 and 14, 2016), geophysical surveys were conducted after the surface pavement & footings were removed. Detected subsurface utilities, structures, and anomalies were marked in the exposed soil using pin-flags. A copy of PC Locators' field report is provided in Attachment B.

Immediately following PC Locators' work, Meagher Surveys (a licensed survey company under contract to JHA) measured the locations of the onsite subsurface geophysical-identified utilities, structures, and anomalies using global positioning satellite (GPS) technology. Using their GPS survey data, Meagher generated a Site Plan (1 inch = 40 feet; see Plate 3).

## 4.0 MARCH & APRIL 2016 – SUBSURFACE POTHOLING AT GEOPHYSICAL ANOMALIES TO FURTHER EVALUATE THOSE LOCATIONS, TO EVALUATE THE POTENTIAL PRESENCE OF USTs, AND AT OTHER NON-ANOMALY AREAS

On March 28, April 11, and April 14, 2016, subsurface potholing using a Case backhoe or John Deere excavator was performed by JHA to further evaluate geophysical anomalies, the potential presence of USTs, and other non-anomaly areas in order to better characterize subsurface conditions at the Site.

On April 13, 2016 (during JHA's pavement removal), potholing was conducted by the Newhall County Water District (NCWD) using Ditch-Witch FS-30 hydro-vacuum equipment to locate their old abandoned 2-inch-diameter water line that ran in a north-south direction beneath the center of the Site, north of the Site beneath the entire city block towards Lyons Avenue, and apparently south of the Site beneath 9$^{th}$ Street. They successfully located their abandoned non-conductive cast iron water line just inside the Site's southern border at a depth of approximately 4 feet and again north of the Site just south of Lyons Avenue. They backfilled their northern offsite pothole but not their southern onsite pothole.

### 4.1Pothling and Confirmation of Atkins' UST-3

Based on GPR results (2015 and the most-recent 2016), potholing was conducted by JHA on March 28, 2016 along the northern Site boundary in order to confirm or deny the presence of a possible UST (previously identified by Atkins as UST-3). Its presence was confirmed at a depth of approximately 2 feet bgs by completely exposing the west end of the UST, partially exposing the east end of the UST (including two approximate 10-foot-long steel pipes connected to the top of the east end of the tank and stubbing up to ground surface approximately 8 feet southeast of the tank); and partially exposing a tank port in the top center of the tank. The tank is a 6-foot-diameter x 12-foot-long steel UST, equating to approximately 2,500 gallons.

As monitored by JHA using a weighted measuring tape and a photo-ionization detector (PID for volatile organic vapors) via the tank port, the tank is empty and dry with no PID readings. Photographs of the exposed tank are provided in Attachment B. The years that the tank was used and prior tank contents are unknown.

### 4.2 Potholing at Identified Geophysical Anomalies

Based on GPR results (the most-recent 2016), potholing was conducted on April 14, 2016 at the identified geophysical anomalies at various locations across the Site (see Plate 3). One-third to one-half of the locations confirmed the presence of onsite conductive and pre-detected inactive utilities (electrical, sewer, natural gas, and the east-west water line; these utilities and anomalies had been detected on March 28, April 11, and April 14, 2016 by PC Locators). The remaining half to two-thirds of the anomalies revealed only pieces of broken buried concrete pavement, smaller footings, or rocks/cobbles.

Results of this potholing confirmed the presence of one to two feet of artificial fill overlying native soil beneath the entire Site (as encountered during drilling conducted as part of this and previous subsurface investigations). The fill consisted of soil mixed with varying amounts of buried pieces of pavement, small foundation footings, pieces of wood and plastic, nuts and bolts, washers and gaskets, isolated fragments of rusty steel pipe and rebar, and small amounts of household trash/litter (cardboard, paper cups, bottles). As documented herein at the end of Section 2 and in Section 4.3, one onsite location potholed by JHA and previously drilled by Geocon (Geocon Boring B-5; immediately west of the onsite clarifier) revealed artificial fill to a depth of approximately 5.5 feet. All of JHA's exploratory potholes were immediately backfilled with their own excavated materials.

### 4.3 Potholing and Excavation at Non-Anomaly Locations

To order to better characterize subsurface conditions and in attempts to locate other potential subsurface structures or non-conductive piping in the vicinity of possible above-ground remote fill waste oil piping (observed by JHA during the March 3, 2016 Job Walk) and near the clarifier and seepage pit, additional potholing was conducted on April 11 and 14, 2016 by JHA.

On April 11, 2016, a pothole was excavated between the clarifier and the seepage pit with the intent of locating any piping connecting these two structures. During excavation, multiple slabs were found at this raised foundation area. At a depth of 4 feet, one 6-inch-outer-diameter (4-inch-inner-diameter) red clay pipe connecting the two structures was encountered. Photographs of the red clay pipe are in Attachment C.

On April 14, 2016, additional potholing was conducted. At one location in the central to east-central portion of the Site, NCWD's old non-conductive, cast iron, 2-inch-diameter, north-south water line was encountered (Plate 3). At several other locations, only one to two feet of near-surface artificial fill overlying native soil was encountered. As directed by the City, two locations were potholed to depths of approximately 9 feet. A larger area near the possible remote fill piping (west of clarifier and seepage pit, and in the vicinity of the recently-removed small hydraulic lift reservoir tank (see Section 5) was excavated (Plate 3). This excavation extended to depths ranging from 6 to 8 feet bgs. Again, multiple slabs and artificial fill were encountered to depths of approximately 5.5 feet (consistent with the subsurface materials logged in Boring B-5 drilled in this area in Oct. 2015). No tank, piping, or other subsurface structures (such as vaults or trenches) were encountered.

## 5.0 MARCH & APRIL 2016 – LIFT SYSTEM REMOVAL, EXCAVATION BACKFILLING, SOIL SAMPLING, AND LABORATORY ANALYSES

### 5.1 Lift System Removal

On March 28, 2016 and April 7, 2016, Blue Fin Industries (North Hills, California; Contractor License Number 851167; working under contract to JHA) removed the single onsite in-ground hydraulic lift system so that soil samples could be collected from beneath it. The two cylinders containing the hoist pistons were removed on March 28 and the small reservoir tank was removed on April 7. As previously noted, this small reservoir tank had been identified by Atkins as "UST-2". Concrete around the cylinders and the reservoir tank was broken and removed in order to remove these structures, and sufficient soil was excavated to remove the cylinders and the reservoir. Photographs of the removed cylinders and reservoir tank are provided in Attachment C.

Prior to removal, JHA understands that the hydraulic fluid was pumped from the lift system by others. The small amount of broken concrete was stockpiled onsite and was subsequently transported offsite for recycling with other surface pavement (see Section 7.1, below). The cylinders and other hoist-related metal scrap was properly transported offsite to a metal recycling facility by Blue Fin. The reservoir tank was transported offsite by a waste hauler (licensed to transport tanks) under contract to Blue Fin.

### 5.2 Soil Sampling and Laboratory Analyses Following Lift System Removal

On March 28, 2016 following cylinder removals, a California Professional Geologist from JHA collected two soil samples from the bucket of the backhoe at depths of approximately 8 and 10 feet bgs (at and approximately 2 feet below the bottom of the cylinders: Samples HH-8' and HH-10'). On April 7, 2016 following removal of the reservoir lift tank, a California Professional Geologist from JHA collected two soil samples from depths of approximately 6.5 and 8 feet bgs (at and approximately 1.5 feet below the bottom of the tank: Samples LT-6.5' and LT-8').

The soil samples were collected in 4-ounce wide-mouth jars and in 5-gram Encore self-sealing sample containers in accordance with EPA Sampling Method 5035. All soil samples were labelled with a unique identification number, the depth, date, and time collected, and entered on the Chain-of-Custody document. The samples were placed in an ice-chest containing ice, transported back to JHA, stored under chilled conditions, and transported to American Scientific Laboratories, Inc. (ASL; a state-certified laboratory [ELAP No. 2200] in Los Angeles, California) following Chain-of-Custody protocol.

For safety after soil sampling, all excavated soil and the broken concrete pieces were used as backfill for the cylinder and lift tank pits to bring the excavations to grade level. On April 14, 2016, the broken concrete pieces were removed, transported offsite as part of the full-site pavement demolition, and the resulting voids backfilled with clean import pea gravel. New concrete slabs were not poured at the small excavations, pending full-site pavement demolition.

All four soil samples in the 4-ounce jars were analyzed for total petroleum hydrocarbons (TPH) as diesel range organics and oil range organics (TPHdro and TPHoro) using modified EPA Test Method 8015. The samples collected in the 5-gram Encore sample containers were analyzed for gasoline-range organics (TPHgro) and for aromatic and halogenated volatile organic compounds (VOCs) using EPA Test Method 8260B, full scan.

### 5.3 Field Results

The soil encountered in the excavations to depths of 8 to 10 feet consisted of dry to slightly moist, light-brown to light yellow-brown, generally unconsolidated silty sand. The excavated soil and the soil samples were monitored for volatile organic vapors (VOVs) using a PID. No field evidence of hydrocarbon impacts (no petroleum odors, no staining, and no PID readings) were observed.

### 5.4 Laboratory Results

The laboratory results are summarized on Table 1, and the laboratory report and Chain-of-Custody documentation are provide in Attachment D. No TPHgro, TPHdro, aromatic or halogenated VOCs were reported at or above the laboratory Practical Quantification Limits (PQLs) in any of the four hoist or lift tank soil samples; however, TPHoro was reported in Sample HH-8' at 135 mg/kg and in Sample HH-10' at 83.9 mg/kg.

## 6.0 APRIL 2016 – DRILLING, SOIL SAMPLING, AND LABORATORY ANALYSES

### 6.1 Drilling and Soil Sampling at the Clarifier, Seepage Pit, and UST-3

On April 1, 2016, J & H Drilling (Buena Park, California; C57 License Number 740854; under contract to JHA) drilled six onsite soil borings: JHA-B-1 through JHA-B-6 (Plate 3). Four borings (JHA-B-1 through JHA-B-4) were drilled to depths of 25 feet at locations immediately surrounding UST-3 near the Site's northern boundary. The remaining two borings (JHA-B-5 and JHA-B-6) were drilled to depths of 10 feet at locations immediately adjacent to the slurry-filled two-chamber clarifier located in the southwest portion of the Site. For utility clearance purposes, all six borings were initially hand-augered to a depth to 5 feet.

The six borings were drilled used a truck-mounted hollow stem auger rig (CME 85). During drilling, soil samples were collected at 5-foot intervals using a California modified split-spoon sampler lined with clean brass sleeves on a wireline downhole hammer sampling system. Drilling and soil sampling were supervised and soil was logged in accordance with the Unified Soil Classification System (USCS) by a California Professional Geologist from JHA. Boring logs are contained in Attachment D.

At each sample interval, soil samples were retained in one brass ring (whose ends were sealed with Teflon, capped with plastic end caps, and sealed with self-sealing inert Parafin tape)

and in 5-gram Encore self-sealing sample containers in accordance with EPA Sampling Method 5035. All soil samples were labelled with a unique identification number, the depth, date, and time collected, and entered on the Chain-of-Custody document. The samples were placed in an ice-chest containing ice, transported back to JHA, stored under chilled conditions, and transported to ASL following Chain-of-Custody protocol.

Soil cuttings generated during drilling were contained in four DOT-approved 55-gallon steel drums and temporarily stored onsite, pending waste profiling and proper offsite recycling at a licensed soil recycling facility. Manifests are provided in Attachment F. Following drilling and soil sampling, the borings were backfilled completely with pure bentonite grout.

At the City's request, soil sampling was attempted at/through the bottom of the seepage pit. The only surface evidence of the seepage pit (located a short distance south of the clarifier and previously identified by Atkins as the clarifier's clean-out or sample box) was an approximate 5-inch-diameter steel lid labeled "sewer", set in concrete and located approximately 11 feet south of the clarifier's southern chamber. JHA's March 28, 2016 initial inspection of the seepage pit using a measuring tape and flashlight (whose beam was directed down the 3.75-inch-diameter surface access port) had revealed an approximate 22.5-foot-deep x 3.5-foot-diameter, vertical, empty, relatively unstained, dry, brick-sided open shaft. The bottom of the pit was not visible during the March 28 inspection.

At this seepage pit location, the drill rig's wireline downhole hammer sampling system was used to collect soil samples via the narrow surface port: no drilling using hollow stem augers was needed or conducted because the seepage pit was empty. Two soil samples were successfully collected: JHA-B-7-23.5' and JHA-B-7-24'. Upon inspection of these samples, it was apparent that the bottom of the seepage pit was unlined soil, not sealed or paved. This work was also conducted on April 1, 2016.

### 6.2 Laboratory Analytical Program

At the four "UST-3" borings, four of the five soil samples from each boring were analyzed for TPHdro and TPHoro using modified EPA Test Method 8015, and for TPHgro and for aromatic and halogenated volatile organic compounds (VOCs) using EPA Test Method 8260B, full scan.

From the two clarifier borings, both the 5- and 10-foot soil samples were analyzed for TPHoro, TPHdro, TPHgro, and full-scan VOCs using the test methods noted above. From the unlined base of the seepage pit, both soil samples (23.5- and 24-foot) were analyzed for TPHoro, TPHdro, TPHgro, and full-scan VOCs using the test methods noted above.

### 6.3 Field Results

As shown on the boring logs in Attachment D, native soil beneath the Site is primarily yellow-brown to olive-brown fine- through medium-grained sand with varying amounts of gravel and were dry to slightly moist. No groundwater was encountered to a depth of 25.5 feet bgs (maximum depth explored).

All soil samples and drill cuttings were monitored for volatile organic vapors (VOVs) using a portable photo-ionization detector (PID). No field evidence of hydrocarbon impacts (no petroleum odors, no staining, and no PID readings) were observed in any of the soil samples.

Gray-stained soil with a slight sewer/decay odor, however, was detected in seepage pit Soil Sample JHA-B-7-23.5'. The deeper sample at this same location (JHA-B-7-24') did not reveal staining or sewer-like odor.

### 6.4 Laboratory Results

The laboratory results are summarized on Table 1, and the laboratory report and Chain-of-Custody documentation are provide in Attachment D.

Soil sample JHA-B-2-5' (near UST-3 along the northern property line) contained TPHoro at 110 mg/kg (could be a small asphalt fragment from the nearby surface pavement). No other hydrocarbons (no TPHdro, TPHg, or VOCs) were detected at or above PQLs in this sample. No hydrocarbons (no TPHoro, TPHdro, TPHgro, or VOCs) were detected at or above PQLs in any of the remaining soil samples from the borings drilled at this UST.

Soil sample JHA-B-6-10' (near the clarifier inlet) contained TPHdro at 15.2 mg/kg. No other hydrocarbons (no TPHoro, TPHgro, or VOCs) were detected in this sample. No hydrocarbons (no TPHoro, TPHdro, TPHgro, or VOCs) were detected in any of the remaining soil samples from the borings drilled at the clarifier.

Both soil samples from the bottom of the brick-sided seepage pit contained TPHdro and TPHoro; however, no TPHgro or VOCs were detected at or above PQLs (no elevated PQLs occurred as a result of the elevated TPHdro or TPHoro). In gray-stained soil sample JHA-B-7-23.5', TPHdro was detected at 3,390 mg/kg and TPHoro was detected at 4,830 mg/kg. In the slightly deeper, unstained soil sample JHA-B-7-24', TPHdro decreased to 782 mg/kg and TPHoro decreased to 498 mg/kg.

## 7.0 SURFACE AND MULTI-SLAB SUBSURFACE PAVEMENT REMOVAL WITH OFFSITE RECYCLING, ROUGH GRADING, PLACEMENT OF SURFACE ROCK, AND BACKFILLING OF SEEPAGE PIT

### 7.1 Pavement Removal/Offsite Recycling; Subsequent Placement of Surface Rock

Beginning April 4 and continuing through April 19, 2016, onsite surface pavement and multi-slab subsurface pavement with evenly-spaced 3-foot-square concrete foundation footings were broken, loaded, and transported offsite for recycling. Heavy equipment included: excavator with interchangeable shovel-bucket and breaker attachments; backhoe with interchangeable shovel-bucket, breaker, spreader, and loader bucket attachments; a skidster; and a large front-end wheeler loader.

Soil and old piping (scattered throughout the Site's artificial fill) were segregated from the broken pavement: soil remained onsite but the old piping and broken pavement (concrete and asphalt) were transferred to the vacant lot immediately north of the Site. The broken concrete pavement was temporarily stockpiled north of the Site where, in accordance with the transportation and recycling facility policies, individual lengths of rebar sticking out of the concrete chunks were cut and separated from the concrete. Per recycling facility policy, three (3) separate stockpiles were created and loaded individually: one for concrete, one for asphalt, and a third for rebar and other scrap metal. A combination of 23-cubic-yard capacity end dump trucks and 15-cubic-yard

capacity Super 10 trucks were loaded and used to transport the Site materials to the recycling facility. Load tickets from the recycling facility are provided in Attachment G.

Visual observations provided during the pre-investigation March 3, 2016 Job Walk indicated that the raised concrete foundation in the south-central to southwestern portion of the Site consisted of 4-inch-thick surface concrete (with 0.4-inch-diameter rebar) and a lower slab (also assumed to be 4-inch-thick concrete) separated by 2" to 8" of soil. During surface concrete removal and underlying soil excavation, encountered soil ranged in thickness from 12 to 18 inches (greater than the expected 2 to 8 inches). A previously-unknown approximate 4-inch-thick asphalt slab was encountered beneath the soil. Beneath the asphalt, the second concrete slab was encountered: this slab was at least 4 inches thick with evenly-spaced 3-foot-square foundation footings. Rebar in this lower concrete slab and the foundation footings was 1-inch-diameter. The removal of all three slabs and the 3-foot-square footings at the raised foundation area was conducted on April 13 and 14, 2016, wrapping on the morning of April 15, 2015.

Following pavement removal, rough grading was conducted. Clean ¾" import rock was then transported to the Site and spread across the entire Site to a thickness of 4 inches, covering the newly-exposed soil. Extra rock was required to backfill the volume of the removed multiple slabs and foundation footings. During pavement removal and surface import rock spreading, dust suppression was conducted.

### 7.2 Seepage Pit Backfilling and Removal of the Pit's Apparent Overflow or Venting Pipe; and Backfilling NCWD's Onsite Old Water Main Pothole

At the City's request for onsite vehicle parking following this investigation, the empty seepage pit was backfilled using pea gravel. Prior to and for ease of backfilling (to avoid using only the 3.75-inch-diameter seepage pit access surface port), soil above the subsurface concrete cap of the pit was excavated and the concrete cap itself was broken and removed.

On the morning of April 14, 2016, approximately 12 cubic yards of self-compacting clean import pea gravel were transported to the Site. Approximately 11.5 cubic yards were immediately used to backfill the seepage pit. The remaining 0.5 cubic yard was used to backfill the NCWD's old water main pothole that they had excavated the day before. On the afternoon of April 14, 2016, the City requested that the seepage pit's apparent overflow or venting pipe be re-exposed and removed. The pea gravel was excavated and temporarily stockpiled, and the approximate 4-foot-long cast iron pipe removed as directed. The areas were subsequently re-backfilled and regraded. The removed pipe was recycled offsite with the other scrap metal & piping.

## 8.0 DISCUSSION AND CONCLUSION

The reported onsite petroleum hydrocarbon soil data were compared to current regulatory criteria as follows: USEPA Region 9 Regional Screening Levels (RSLs: updated Feb. 2016 for residential soil); California State Regional Water Control Board (SWRCB) Environmental Screening Levels (ESLs: updated Nov. 2015 for soil in Tier 1 ESL Look-up Table; published by the San Francisco Bay Regional Water Quality Control Board [RWQCB] and applied throughout the state); and the Los Angeles RWQCB Maximum Screening Levels (MSLs: May 1996 Interim Guidance for Petroleum and VOC-Impacted Sites in Table 4-1, MSLs for TPH and BTEX above Drinking Water Aquifers). These criteria have been included at the bottom of the attached Table 1, Soil Analytical Data.

Based on the results of 2007, 2015, and this recently-completed 2016 onsite assessment, the only soil sample exceeding RSLs, ESLs, and MSLs was for the elevated TPHdro concentration of 3,390 mg/kg in the recently-collected seepage pit soil sample JHA-B-7-23.5'. The elevated TPHoro concentration from this same sample (JHA-B-7-23.5') was 4,830 mg/kg, exceeding only the RSL but not the ESL or MSL. Based on the samples analyzed, the vertical extent of this impacted soil at concentrations above regulatory criteria appears to be delineated at less than 1 foot at a depth of 24 feet as evidenced by decreased concentrations in the lower sample JHA-B-7-24'. The lateral extent has not yet been delineated.

Soil cleanups regardless of source of impact or cause of release can be performed on a self-directed basis. However, should regulatory oversight be required, a Soil Remediation Workplan (Workplan) would be prepared for approval by the appropriate regulatory agency in accordance with that agency's Voluntary Cleanup Program. The Workplan would include a separate Site Specific Health and Safety Plan (HASP) to protect the general public and workers on the project.

The reported TPH-impacted soil near the base of the seepage pit is most likely related to oil discharges into the seepage pit from the nearby clarifier (as connected to the seepage pit via the 6-inch-diameter, 4-foot-deep red clay pipe) when the clarifier was in operation. As noted in Section 2, the City had previously removed oily substances from the clarifier and filled the clarifier with slurry. According to the California SWRCB UST Program Local Guidance LG141, hydraulic lifts are exempt from regulatory oversight and hydraulic fluid is non-toxic. Regardless of origin, the TPH-impacted soil can be mitigated (remediated) either prior to or during Site redevelopment in accordance with a Soil Management Plan (SMP). The SMP will inform the various contractors and workers of the presence of shallow soil impacted with mid- to heavy-range petroleum hydrocarbons and the appropriate measures to safely deal with the soil when it is encountered.

During this recently-completed investigation, JHA has made the best effort to identify subsurface facilities, including pipelines, water and sewer laterals, utility conduits, septic/sewage systems, seepage pits/leach fields, tanks, vaults, vent lines, wells, storm drains, electrical conductors, hoses, buried waste, buried containers, buried or subsurface equipment, footings, buried lumber, etc. at the Site. As documented herein by JHA and shown on Geocon's October 2015 boring log for onsite B-5, artificial fill exists to a depth of approximately 5.5 feet beneath the south-central to southwestern portion of the Site and lesser thicknesses of fill exist elsewhere beneath the Site. The artificial fill consists primarily of scattered inert debris (such as pavement chucks, buried footings, wood, pieces of metal pipe, household trash). Should these scattered items be encountered during future Site redevelopment activities, it is JHA's professional opinion that these items would not cause significant delays to the future redevelopment schedule.

Based on the soil sampling data collected to date, it is JHA's professional opinion that all known in-ground hydraulic lift cylinders and reservoir tanks have been removed from the Site, and that there is no documentation of a release of hazardous materials or petroleum hydrocarbons in the soil or the groundwater beneath the Site that would be subject to enforcement action if brought to the attention of appropriate government agencies.

## 9.0 LIMITATIONS

This report has been prepared for the City of Santa Clarita as an Environmental Assessment documenting the results of the recently-completed subsurface investigation at the Old Town Newhall proposed Parking Structure at the northwest corner of 9th Street and Lyons Avenue, Santa

Clarita, California. Parties not designated by the City of Santa Clarita should not rely on the information in this report without the written consent of JHA.

In performing the professional services, JHA has applied present engineering and scientific judgment and used a level of effort consistent with the standard of practice measured on the date of this report and in the locale of the project Site for similar type of studies. JHA makes no other warranty concerning any of the services furnished to the client. Inferences with respect to potential subsurface contamination are based on a review of readily available government and historical records and a Site reconnaissance. The findings and interpretations in this report have been developed based on the review of existing information pertaining to the subject Site. It should be recognized that subsurface contamination can vary laterally and with depth below a given Site.

If you have any questions regarding this draft report, please call the undersigned.

Yours very truly,
JHA Environmental, Inc.

Carol Shestag, PG
Senior Geologist

Wallace A. Jensky, II, P.G.
Professional Geologist

PROFESSIONAL GEOLOGIST
WALLACE A. JENSKY, II
No. 3358
STATE OF CALIFORNIA

Attachments: List of Acronyms

Plate 1 - Site Location Map
Plate 2 - Site and Surrounding City Block Showing Future Redevelopment Areas
Plate 3 - Site Plan Showing Locations of Geophysical Anomalies, Detected Subsurface Utilities, Soil Borings, and Exploratory Potholes

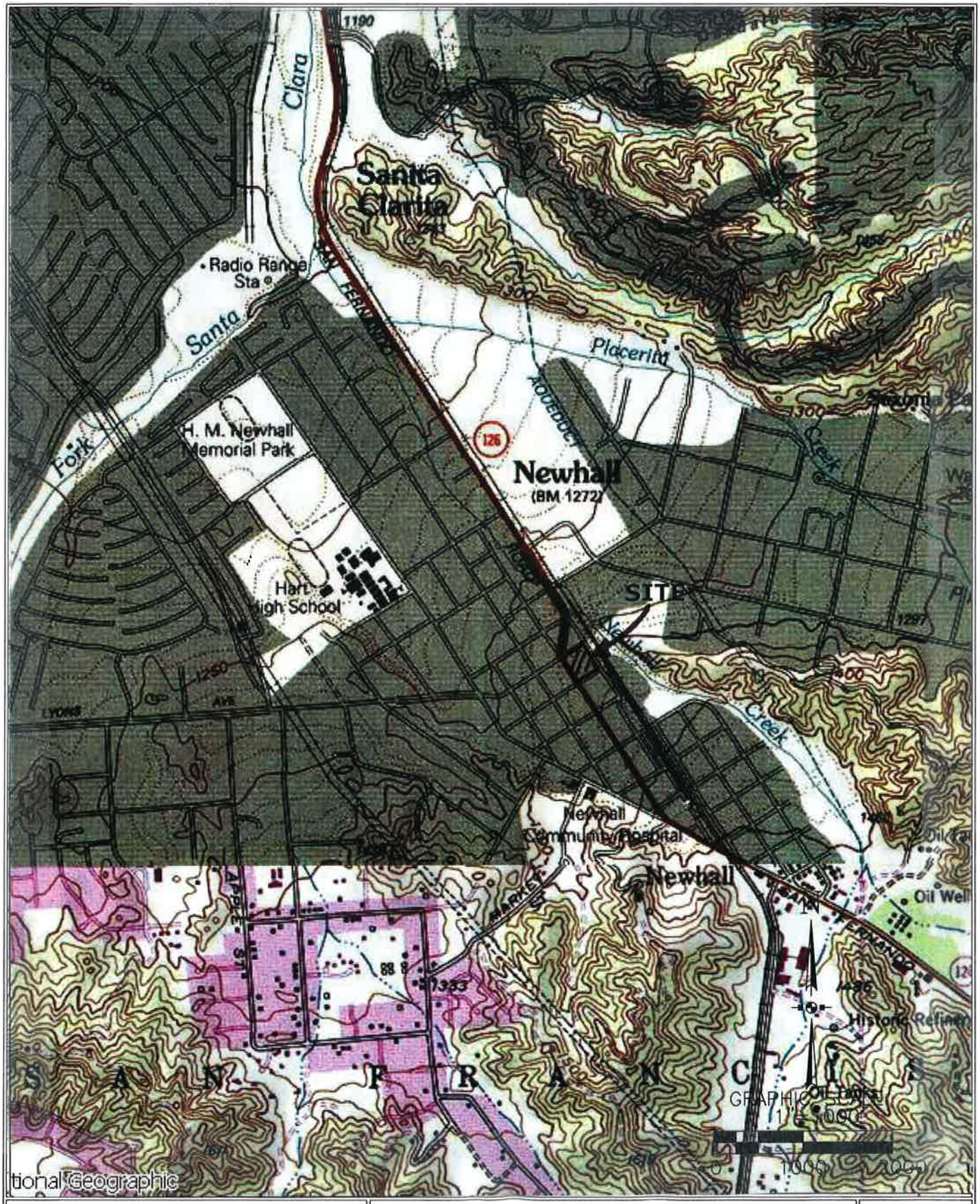
Table 1 - Soil Analytical Results, March & April 2016

A - Historic Aerial Photographs
B - PC Locators' Geophysical Survey Report
C - Site Photographs (JHA's 2016 Investigation)
D - Laboratory Reports and Chain-of-Custody Documentation
E - Boring Logs
F - Non-Hazardous Soil Manifests (Drill Cuttings)
G - Pavement & Scrap Metal Materials Recycling Field Tickets

## LIST OF ACRONYMS

| | |
|---|---|
| JHA | Jacob and Hefner Associates |
| OTN | Old Town Newhall |
| GPR | ground penetrating radar |
| TPH | total petroleum hydrocarbons |
| TPHg/gro | gasoline-range petroleum hydrocarbons |
| TPHd/dro | diesel-range petroleum hydrocarbons |
| TPHo/oro | oil-range petroleum hydrocarbons |
| mg/kg | milligrams per kilogram |
| UST | underground storage tank |
| GPS | global positioning satellite |
| NCWD | Newhall County Water District |
| PID | photo-ionization detector |
| ASL | American Scientific Laboratory |
| VOC | volatile organic compound |
| VOV | volatile organic vapor |
| EPA | Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| PQL | practical quantification limit |
| CME | Central Mining Equipment |
| USCS | Unified Soil Classification System |
| DOT | Department of Transportation |
| bgs | below ground surface |
| SWRCB | State Water Resources Control Board |
| RWQCB | Regional Water Quality Control Board |
| USEPA | United States Environmental Protection Agency |
| ESL | Environmental Screening Level |
| RSL | Regional Screening Level |
| MSL | Maximum Screening Level |
| BTEX | Benzene, Toluene, Ethylbenzene, Xylene |
| SMP | Soil Management Plan |

# PLATES

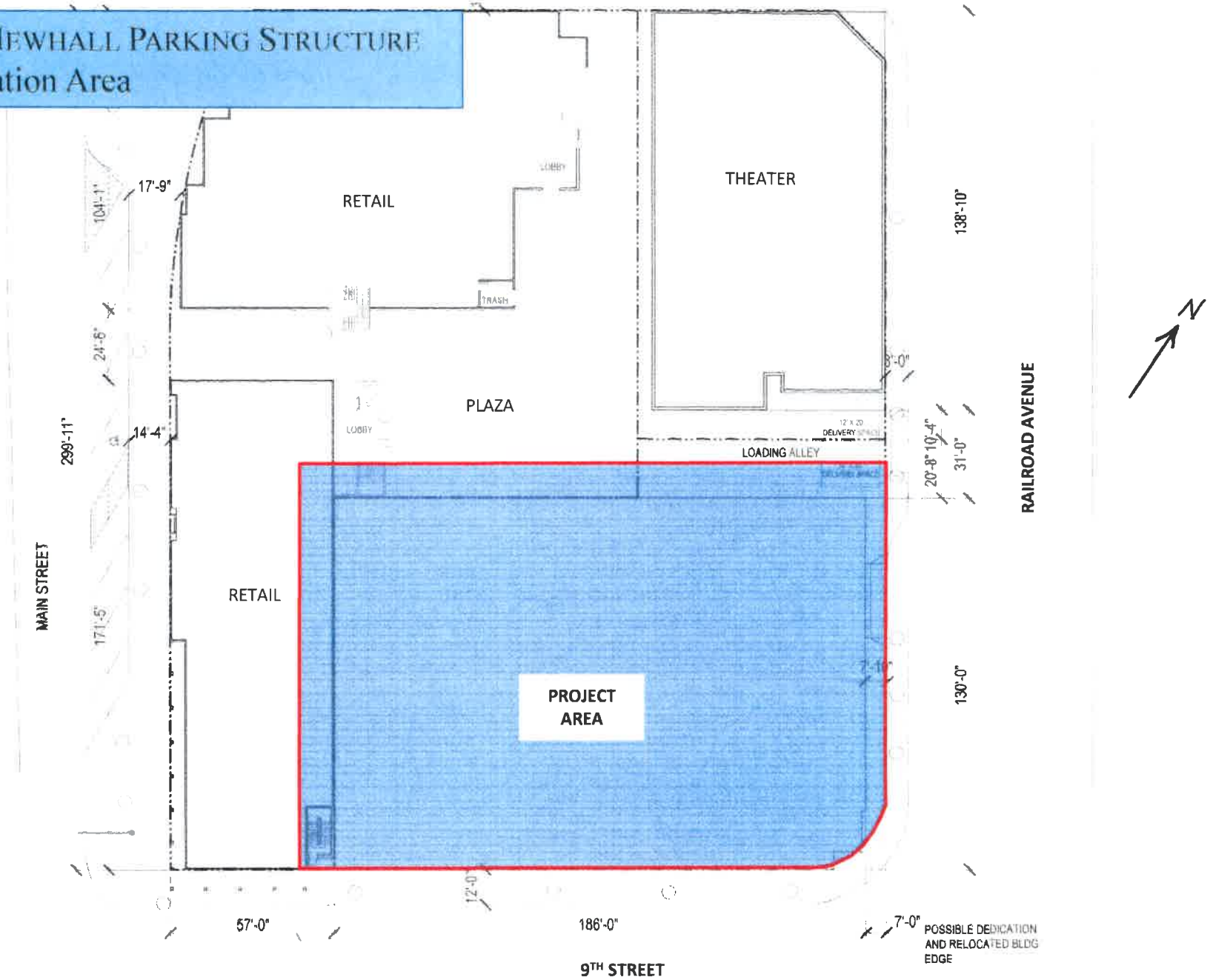



JHA ENVIRONMENTAL, INC.
2646 PALMA DRIVE, SUITE 450
VENTURA, CALIFORNIA 93003
PHONE: (805) 654-9611 FAX: (805) 654-9613

**SITE LOCATION MAP**
**CITY OF SANTA CLARITA OTN PARKING**
**NW CORNER OF 9th STREET & RAILROAD AVE**
**SANTA CLARITA, CALIFORNIA 91321**

**PLATE 1**

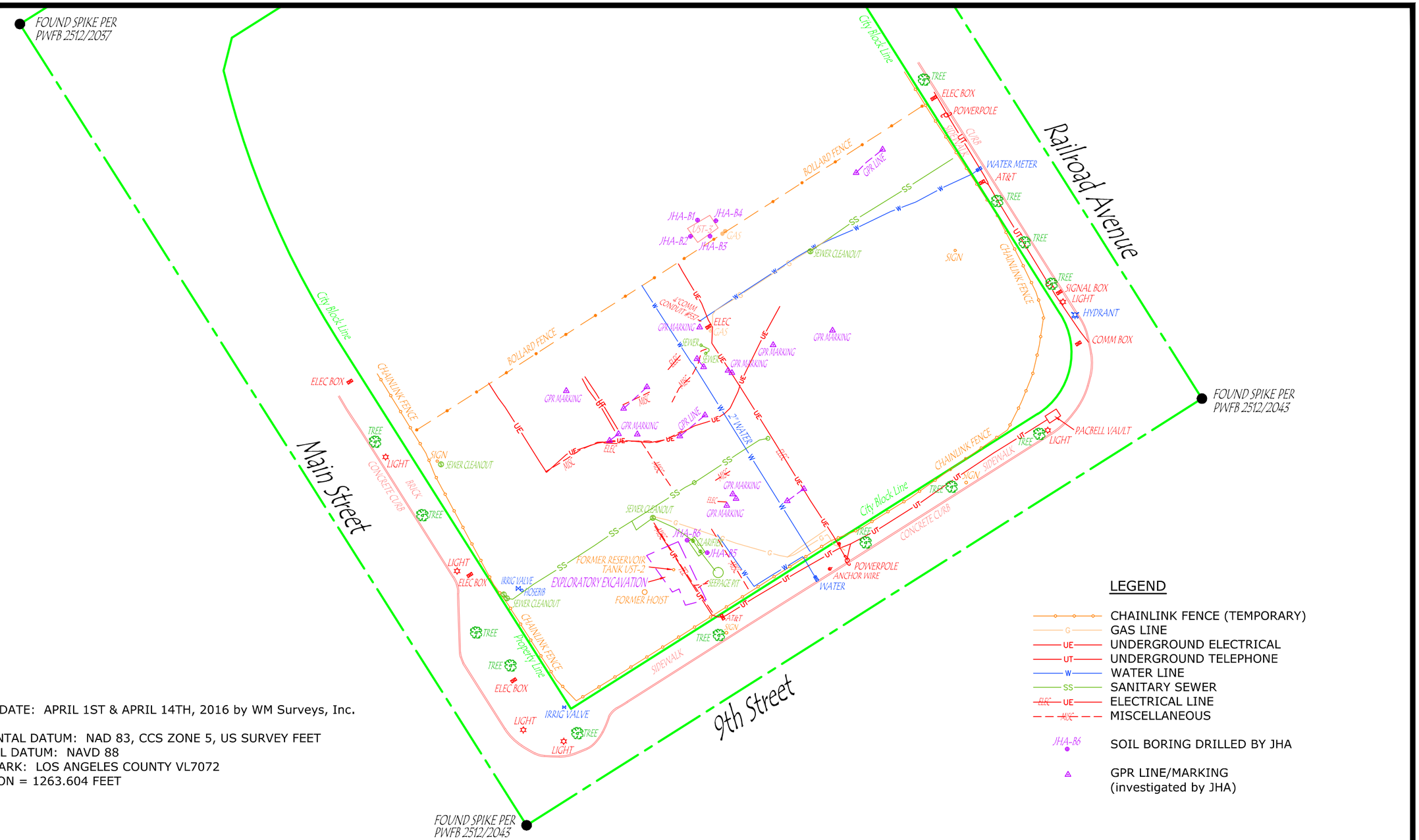
# Old Town Newhall Parking Structure
## Site Investigation Area




JHA ENVIRONMENTAL, INC.
2846 PALMA DRIVE, SUITE 450
VENTURA, CALIFORNIA 93003
PHONE: (805) 654-9611 FAX: (805) 654-9613

**SITE (PROJECT AREA) AND CITY BLOCK TO THE NORTH**
**PROPOSED REDEVELOPMENT - CITY OF SANTA CLARITA OTN PARKING**
**NW CORNER OF 9th STREET & RAILROAD AVE**
**SANTA CLARITA, CALIFORNIA 91321**

**PLATE 2**




SURVEY DATE: APRIL 1ST & APRIL 14TH, 2016 by WM Surveys, Inc.

HORIZONTAL DATUM: NAD 83, CCS ZONE 5, US SURVEY FEET
VERTICAL DATUM: NAVD 88
BENCHMARK: LOS ANGELES COUNTY VL7072
ELEVATION = 1263.604 FEET

NORTH

0' 40' 80' 120'
FEET
SCALE: 1" = 40'

# CITY OF SANTA CLARITA
## OLD TOWN NEWHALL PARKING STRUCTURE
## SANTA CLARITA, CALIFORNIA

DRAWING NO.
PLATE 3

REVISED: 4-29-2016

**TABLE**

## Table 1 - Soil Analytical Results
## City of Santa Clarita - Old Town Newhall (OTN) Parking Structure
## Northwest Corner of 9th Street and Railroad Avenue, Santa Clarita, California

| Sample ID | Date | Full-Scan VOCs | TPHgro | TPHdro | TPHoro |
|---|---|---|---|---|---|
| | | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| **"Gas" Underground Storage Tank** | | | | | |
| JHA-B-1-5' (NW side of UST) | 4/1/2016 | na | na | na | na |
| JHA-B-1-10' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-1-15' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-1-20' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-1-25' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| JHA-B-2-5' (SW side of UST) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | **110** |
| JHA-B-2-10' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-2-15' | 4/1/2016 | na | na | na | na |
| JHA-B-2-20' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-2-25' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| JHA-B-3-5' (SE side of UST) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-3-10' | 4/1/2016 | na | na | na | na |
| JHA-B-3-15' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-3-20' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-3-25' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| JHA-B-4-5' (NE side of UST) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-4-10' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-4-15' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-4-20' | 4/1/2016 | na | na | na | na |
| JHA-B-4-25' | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| **Two-Chamber Clarifier/Oil-Water Separator** | | | | | |
| JHA-B-5-5' (outlet) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-5-10' (outlet) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| JHA-B-6-5' (inlet) | 4/1/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| JHA-B-6-10' (inlet) | 4/1/2016 | All ND<0.050 | ND<0.050 | **15.2** | ND<50 |
| | | | | | |
| **Concrete-sided, soil-base Seepage Pit** | | | | | |
| JHA-B-7-23.5' | 4/1/2016 | All ND<0.050 | ND<0.050 | **3,390** | **4,830** |
| JHA-B-7-24' | 4/1/2016 | All ND<0.050 | ND<0.050 | **782** | **498** |
| | | | | | |
| **Hydraulic Hoist & its Small Reservoir Lift Tank** | | | | | |
| HH-8' | 3/28/2016 | All ND<0.050 | ND<0.050 | ND<10 | **135** |
| HH-10' | 3/28/2016 | All ND<0.050 | ND<0.050 | ND<10 | **83.9** |
| | | | | | |
| LT-6.5' | 4/7/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| LT-8' | 4/7/2016 | All ND<0.050 | ND<0.050 | ND<10 | ND<50 |
| | | | | | |
| **Regulatory Criteria** | | | | | |
| USEPA Region 9 Regional Screening Level (RSL) | | | 82 | 110 | 2,500 |
| CA. SWRCB Environ. Screening Level (ESL) | | | 100 | 2,300 | 5,100 |
| CA. SWRCB Maximum Screening Level (MSL) | | | 500 | 1,000 | 10,000 |

RSL = updated Nov. 2015 (Residential Soil: TR=1E-06, THQ=1.0 ). RSLs updated again Jan 2016 (Calif. DTSC) but not for TPH.
ESL = updated Feb 2016 (Soil: Tier 1 ESL Look-Up Table).
MSL = May 1996 LARWQCB Guidance (Soil; GW depth=20'-150').

VOCs = volatile organic compounds (EPA 8260B)
TPHgro = gasoline-range total petroleum hydrocarbons (EPA 8260B)
TPHdro = diesel-range total petroleum hydrocarbons (EPA 8015M)
TPHoro = oil-range total petroleum hydrocarbons (EPA 8015M)
mg/Kg = milligram per kilogram

Old Town Newhall Parking Garage
24406 Main Street
Newhall, CA 91321

Inquiry Number: 4587394.1
April 10, 2016

# The EDR Aerial Photo Decade Package

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

# EDR Aerial Photo Decade Package

04/10/16

**Site Name:**

Old Town Newhall Parking Gar
24406 Main Street
Newhall, CA 91321
EDR Inquiry # 4587394.1

**Client Name:**

Jacob & Hefner Associates
2646 Palma Drive
Ventura, CA 93003
Contact: Wallace Jensky

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 | USGS |
| 1994 | 1"=500' | Acquisition Date: June, 01 1994 | USGS/DOQQ |
| 1989 | 1"=500' | Flight Date: August, 22 1989 | USGS |
| 1981 | 1"=500' | Flight Date: February, 15 1981 | EDR Proprietary Brewster Pacific |
| 1972 | 1"=500' | Flight Date: October, 31 1972 | EDR Proprietary Brewster Pacific |
| 1970 | 1"=500' | Flight Date: April, 03 1970 | EDR Proprietary Brewster Pacific |
| 1969 | 1"=500' | Flight Date: July, 25 1969 | USGS |
| 1952 | 1"=500' | Flight Date: July, 23 1952 | USGS |
| 1947 | 1"=500' | Flight Date: August, 16 1947 | USGS |
| 1940 | 1"=500' | Flight Date: May, 13 1940 | USGS |
| 1938 | 1"=500' | Flight Date: June, 15 1938 | USGS |
| 1928 | 1"=500' | Flight Date: January, 01 1928 | USGS |

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INQUIRY #: 4587394.1

YEAR: 2012

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 2010

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 2009

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 2005

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 2002

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1989

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1981

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1972

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1970

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1969

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1952

= 500'

N

EDR

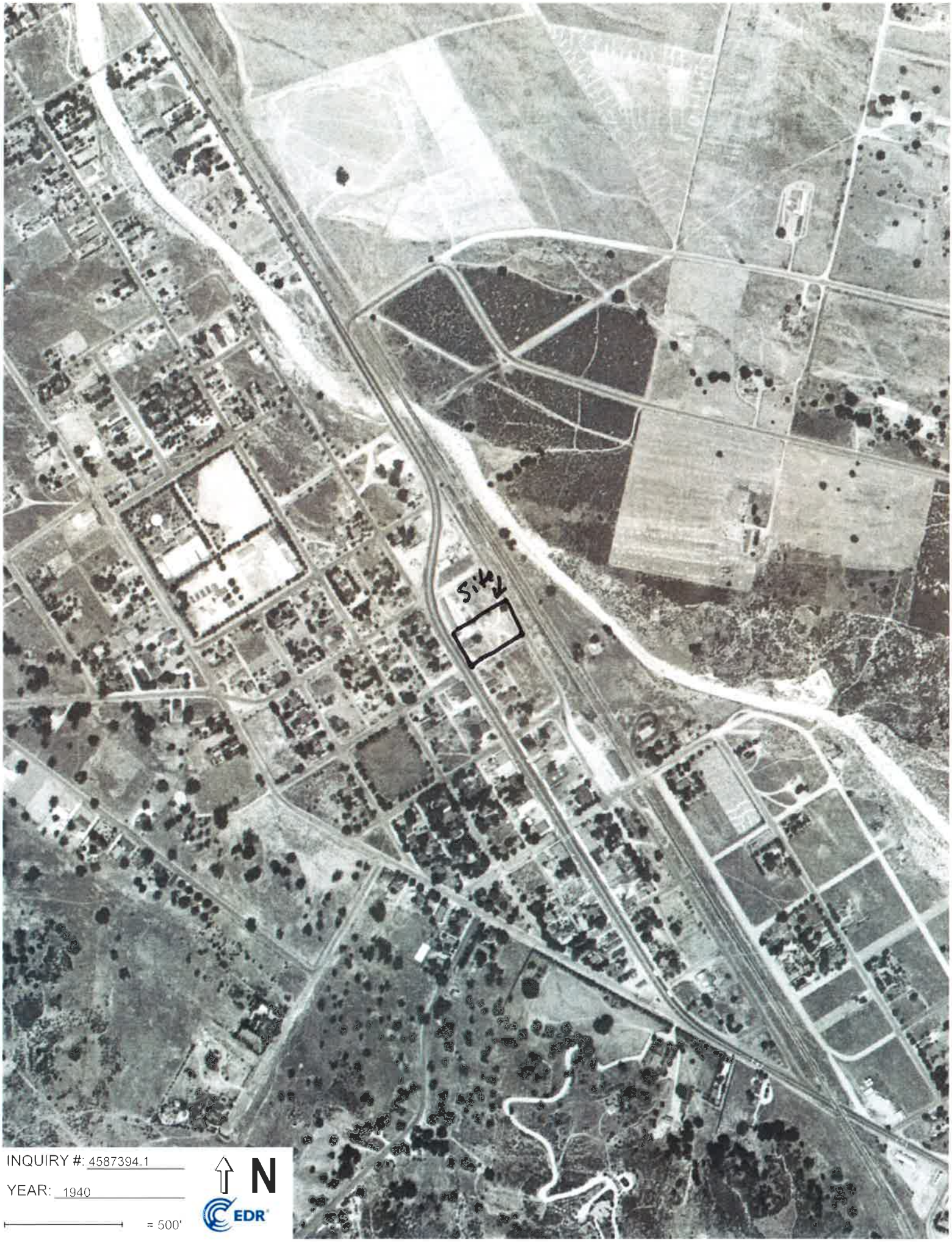
INQUIRY #: 4587394.1

YEAR: 1947

= 500'

N

EDR

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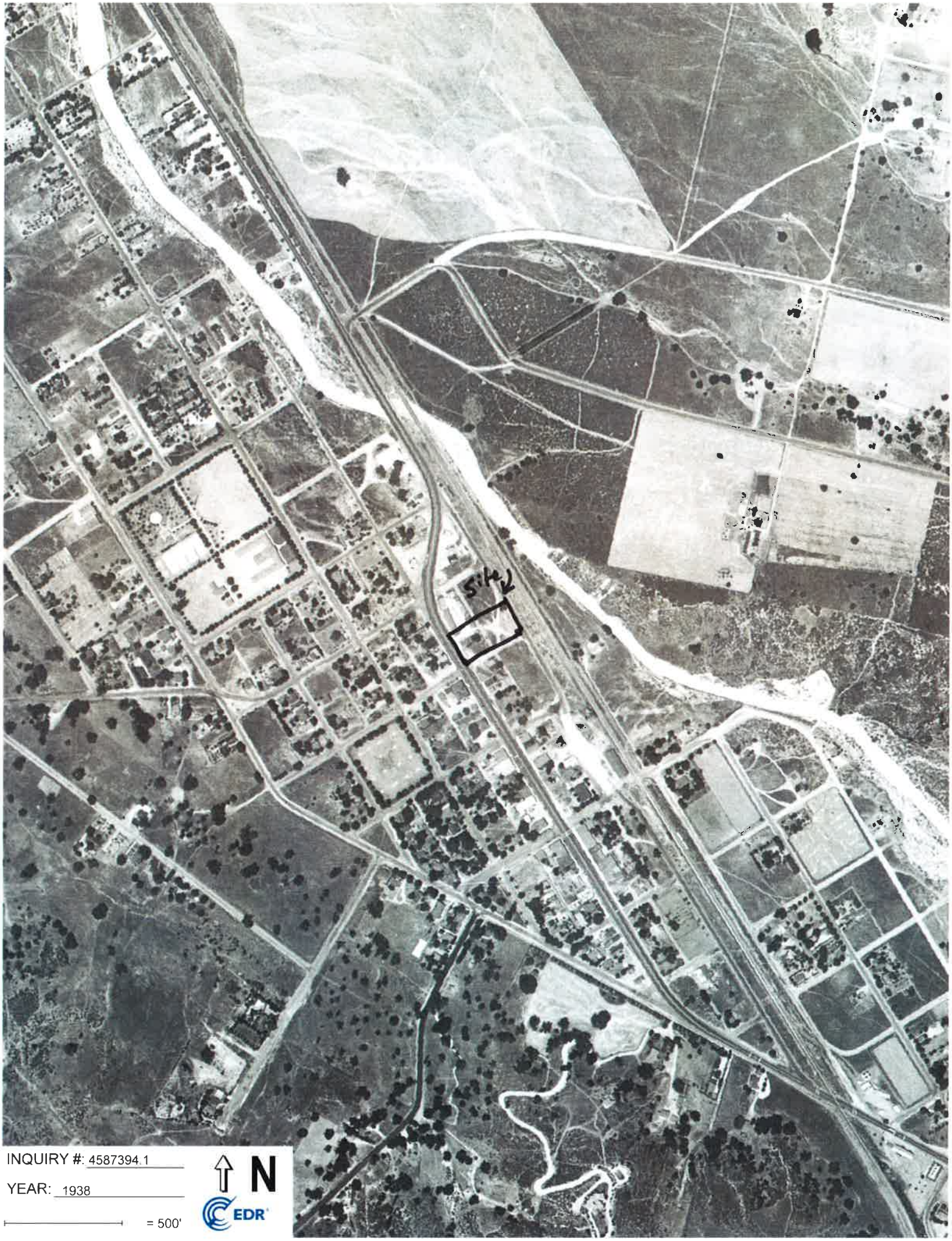
EDR




INQUIRY #: 4587394.1

YEAR: 1938

= 500'

N

EDR

INQUIRY #: 4587394.1

YEAR: 1928

= 500'

N

EDR

# Subsurface Investigation Report

**Project:**

**Commercial (Vacant) Lot**
**9th & Railroad Ave.**
**Santa Clarita, CA**

**Prepared For:**

**Carol Shestag**
**Jacob & Hefner Associates**
**15375 Barranca Pkwy.**
**Irvine, CA 92618**

**Prepared By:**

**Pacific Coast Locators, Inc.**
**EM & GPR Technicians**
**2606 Foothill Blvd., Ste. G La Crescenta, CA 91214**
**Ph: 818-249-7700 Fax: 818-249-7701**

## INTRODUCTION

Pacific Coast Locators, Inc. was hired by JHA Environmental to perform a Subsurface Investigation clear and mark-out all conductive & non-conductive underground utilities, abandoned underground utilities, and to locate any buried subsurface features including: asphalt, concrete, footings, and other various debris on-site. Our technician also performed a sweep & scan to determine the absence or presence of potential Underground Storage Tank(s) within the areas of concern on-site. Our technicians started work on Monday, March 8, 2016 and continued on Monday, April 11 and Thursday, April 14, 2016.

## METHODOLOGY AND EQUIPMENT

The Geophysical Survey Systems SIR 3000 Utility Scan Ground Penetrating Radar (GPR) with 400MHz antenna sends a dielectric signal into the earth, which registers with the density of the soil that it is penetrating. Any other material of varied density will either speed up the signal creating an inverted hyperbola or slow it down leaving a hyperbola trail. This is similar to a rock in a creek. The water bends around the rock leaving a tail wake. The GPR signal is not bending however; it is sending back a continuous signal of the curvature of the anomaly it encounters. The 400MHz GPR antenna will pick up unknown anomalies & debris, utilities, concrete footings, disturbed soils, and other buried features.

The RD4000 Electro-Magnetic Transmitter & Receiver has Inductive & Conductive capability to locate buried conductive underground utilities, such as copper, steel and galvanized metal water pipes, electrical lines, power lines, tele-communication lines, metal and steel gas lines, and metal and steel pipelines. The RD4000 features include multiple active frequencies to delineate the depth and location of the target utility or pipe. The RD4000 receiver has a peak and null gain feature that pinpoints the target utility or pipe in congested areas. The audible signal to noise feature makes it easy for the locating technician to determine accurately the location of a directly connected utility or pipe by sound.

The Schonstedt GA-52Cx Magnetic Locator detects iron and steel objects underground, such as USTs, buried oil wells and buried metal monitoring well lids. The Schonstedt GA-52Cx Magnetometer provides audio detection signals with frequencies that vary with gradient field intensity. The signals peak in frequency when the locator's tip is held directly over the target.

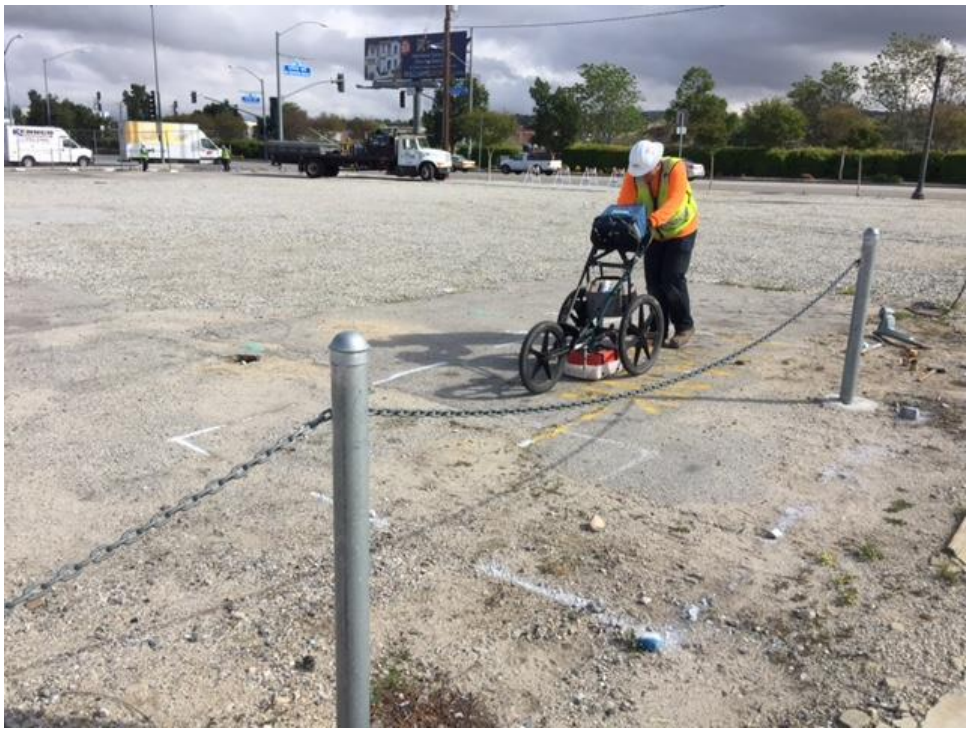
## SITE AREA

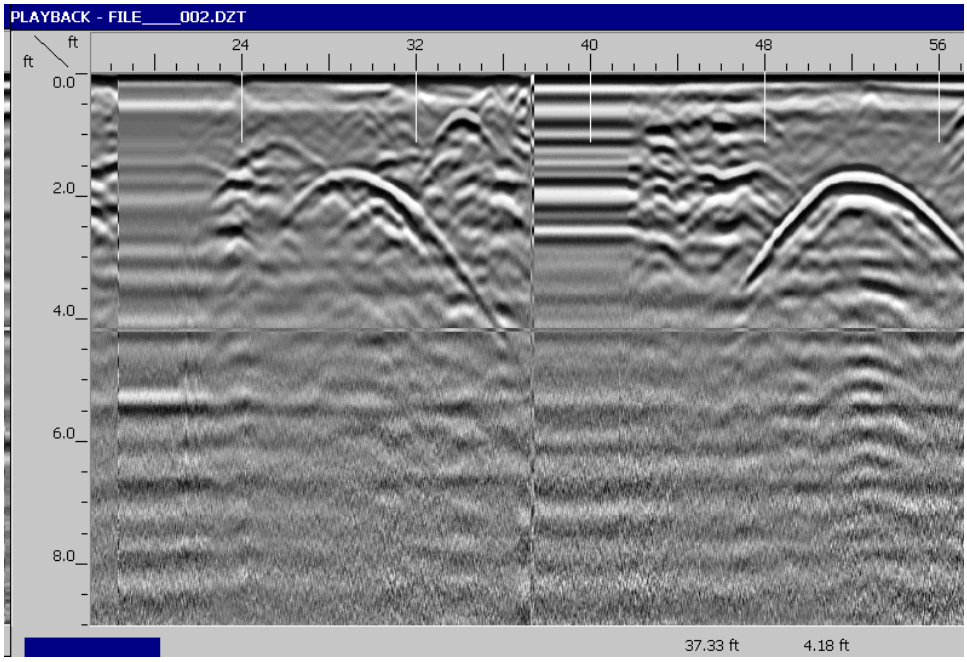
The subject site is located at the intersection of 9$^{th}$ St. and Railroad Ave. in Santa Clarita, CA. It is currently a vacant lot.

## ANALYSES / INTERPRETATIONS AND FINDINGS

Performing a Subsurface Investigation using the Geophysical Survey Systems SIR 3000 Utility Scan Ground Penetrating Radar (GPR) with a 400MHz antenna, the RD4000 Electro-Magnetic Transmitter & Receiver, and the Schonstedt GA-52Cx Magnetometer confirmed several buried utilities and anomalies on-site. Our technician was also able to confirm an existing Underground Storage Tank on-site. Below are photos and GPR images of findings.

**Photos and GPR Images of potential UST found on-site.**

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40
48
56
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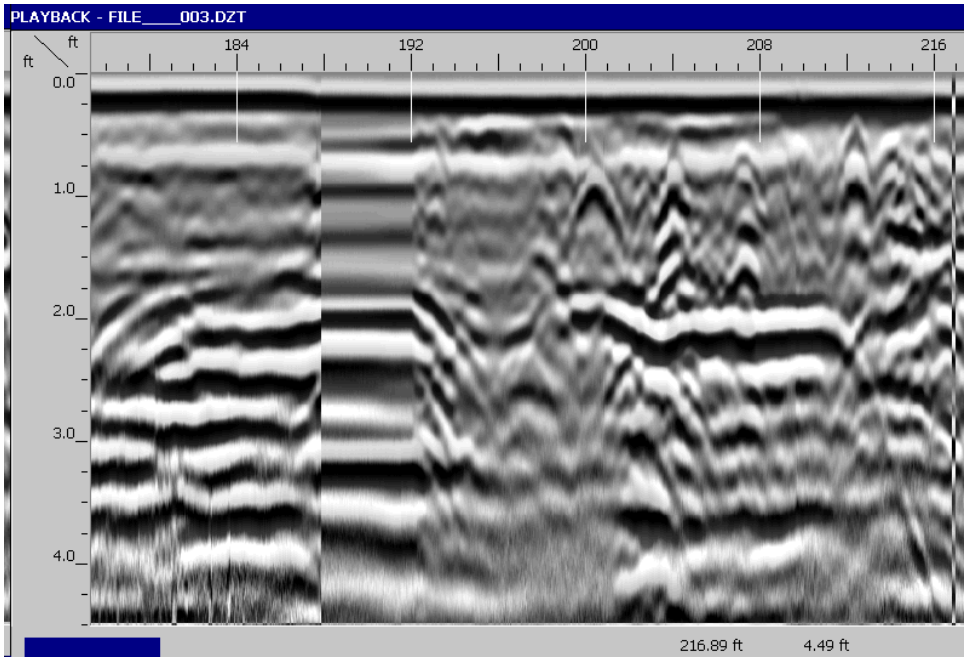
2.0
4.0
6.0
8.0
37.33 ft
4.18 ft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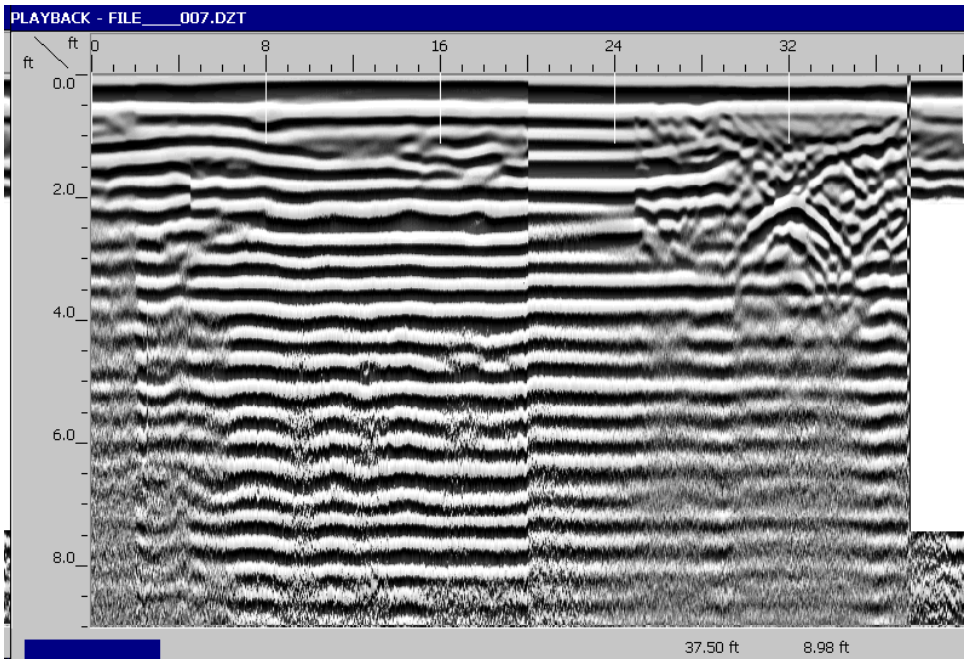
ft
ft
184
192
200
208
216
0.0
1.0
2.0
3.0
4.0
216.89 ft
4.49 ft

**Photos and GPR images of liner anomaly (potential abandoned pipeline) found on-site.**


PLAYBACK - FILE____007.DZT
ft
ft
0
8
16
24
32
0.0
2.0
4.0
6.0
8.0
37.50 ft
8.98 ft

**Photos of confirmed underground utilities, anomalies and other buried features confirmed on-site.**

SEPTIC 22' Depth

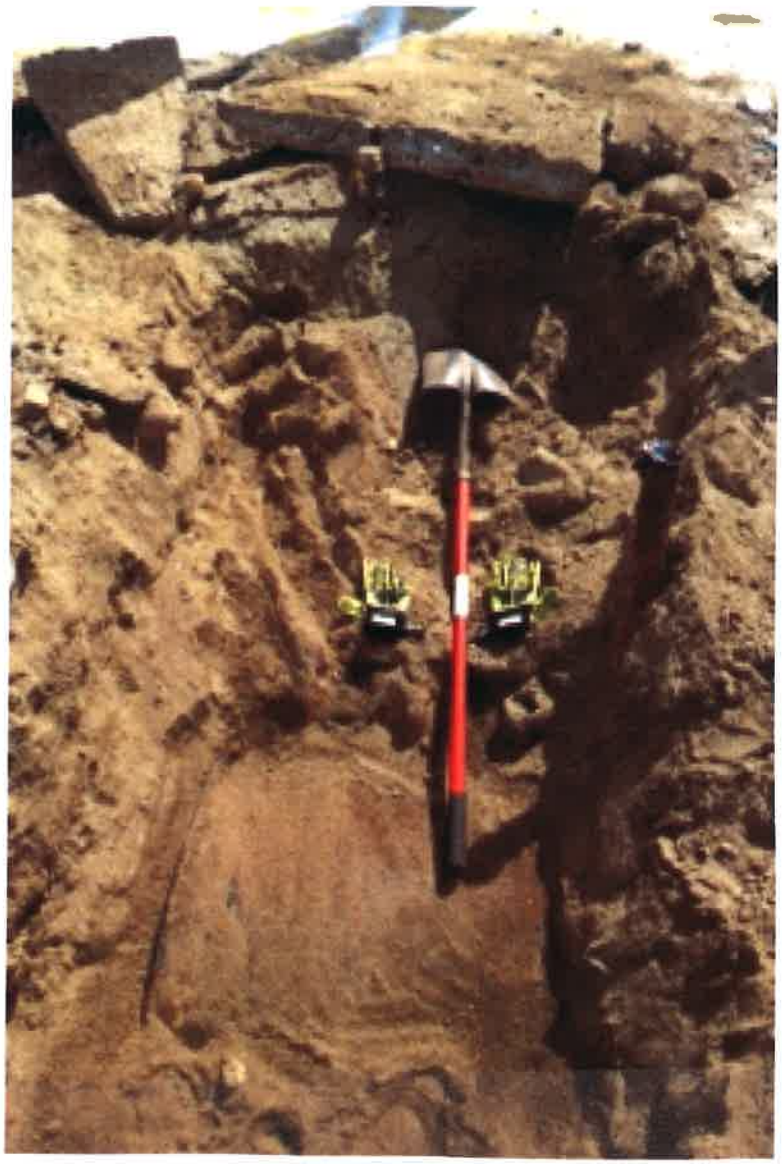
12:
1

5 ft.

**Field work performed by Rick Huerta,**
**Pacific Coast Locators, Inc.**
**Certified GPR & EM Technicians**

**PHOTOGRAPH 1** – View looking north towards UST-3 with GPR markings of tank location on asphalt (3/28/2016).

**PHOTOGRAPH 2** – View looking at the exposed west end of UST-3; tank is 6-ft-diameter x 12-ft-long (3/28/2016).



**PHOTOGRAPH 3** – View of top of the exposed top east end of UST-3 & related piping with pipe stub-ups at surface (3/28/2016).

**PHOTOGRAPH 4** – Removed hydraulic hoist cylinders (3/28/2016); southwest corner of Site.

**PHOTOGRAPH 5** – Removed small hydraulic lift reservoir tank (4/7/2016); southwest portion of Site.

**PHOTOGRAPH 6** – View looking into exposed brick-lined seepage pit prior to backfilling with pea gravel (4/14/2016).

**PHOTOGRAPH 7** – Typical near-surface artificial fill beneath Site (4/14/2016).

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Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone (805)504-6166
Attn Wally A. Jensky

Number of Pages 6
Date Received 03/30/2016
Date Reported 04/06/2016

| Job Number | Ordered | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

---

**Project ID:**
**Project Name:** Santa Clarita ONT
**Site:** 9th Street & Railroad Ave.
Santa Clarita, CA

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Wendy Lu
Organics Supervisor

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:
1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

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COC# № 72794 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 67329

CHAIN OF CUSTODY RECORD

| | |
|---|---|
| Company: JHA Environ. | Report To: Wally Jensky / Carol Shestag |
| Address: 26466 Palma Ave, #450 Ventura, CA. 93003 | Address: ← JHA Vtr. |
| Telephone: (805) 509-0377 Fax: | Invoice To: Wally Jensky / Carol Shestag |
| Special Instruction: None | Address: ← JHA Vtr. |
| E-mail: cshestag@jacobandhelfer.com | P.O.# E751A |
| Project Name: Santa Clarita OTN (Parking Structure) | |
| Site Address: 9th Street + Railroad Ave Santa Clarita, CA. | |
| Project ID: | |
| Project Manager: Wally Jensky / Carol Shestag | |

ANALYSIS REQUESTED

| ITEM | LAB USE ONLY Lab ID | SAMPLE DESCRIPTION Sample ID | Date | Time | Container(s) # | Type | Matrix | Preservation | TPHd/TPHo (by 8015M) | TPHg/full-scan VOCs (8260B) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 344681 | HH-8' | 3/28/2016 | 4:15pm | 5 | 2 jars 3 Encores | Soil | ice | X | X | |
| | 344682 | HH-10' | " | 4:30pm | 4 | 2 jars 2 Encores | " | " | X | X | |

| | | | |
|---|---|---|---|
| Collected By: CBShestag | Date 3/28/2016 Time 7:45pm | Relinquished By: | Date Time |
| Relinquished By: | Date 3/30/16 Time 1057 | Received For Laboratory | Date 3-30-16 Time 1057 |
| Received By: | Date Time | Condition of Sample: | |

TAT ☑ Normal ☐ Rush

White - Report, Yellow - Laboratory, Pink - Client

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **2**

Project Name: Santa Clarita ONT

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1D-040116**

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | HH-8' | HH-10' | | | |
| Date Sampled | | 03/28/2016 | 03/28/2016 | | | |
| Date Prepared | | 04/01/2016 | 04/01/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/01/2016 | 04/01/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | mg/Kg | mg/Kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | | | |
| TPH OROs (C28+) | 50.0 | 135 | 83.9 | | | |

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 80 | 81 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1D-040116**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 100 | 101 | <1 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **3**

Project Name: Santa Clarita ONT

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S2C-040116**

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | HH-8' | HH-10' | | | |
| Date Sampled | | 03/28/2016 | 03/28/2016 | | | |
| Date Prepared | | 04/02/2016 | 04/02/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/02/2016 | 04/02/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| Acetone | 50.0 | ND | ND | | | |
| Benzene | 2.00 | ND | ND | | | |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | | | |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | | | |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | | | |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | | | |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | | | |
| n-Butylbenzene | 10.0 | ND | ND | | | |
| sec-Butylbenzene | 10.0 | ND | ND | | | |
| tert-Butylbenzene | 10.0 | ND | ND | | | |
| Carbon disulfide | 10.0 | ND | ND | | | |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | | | |
| Chlorobenzene | 10.0 | ND | ND | | | |
| Chloroethane | 30.0 | ND | ND | | | |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | | | |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | | | |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | | | |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | | | |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | | | |
| Dibromochloromethane | 10.0 | ND | ND | | | |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | | | |
| Dibromomethane | 10.0 | ND | ND | | | |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | | | |
| Dichlorodifluoromethane | 30.0 | ND | ND | | | |
| 1,1-Dichloroethane | 10.0 | ND | ND | | | |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita ONT

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S2C-040116**

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | HH-8' | HH-10' | | | |
| Date Sampled | | 03/28/2016 | 03/28/2016 | | | |
| Date Prepared | | 04/02/2016 | 04/02/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/02/2016 | 04/02/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| 1,2-Dichloroethane | 10.0 | ND | ND | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | | | |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| 1,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,3-Dichloropropane | 10.0 | ND | ND | | | |
| 2,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,1-Dichloropropene | 10.0 | ND | ND | | | |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| Ethylbenzene | 2.00 | ND | ND | | | |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | | | |
| 2-Hexanone | 50.0 | ND | ND | | | |
| Isopropylbenzene | 10.0 | ND | ND | | | |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | | | |
| MTBE | 5.00 | ND | ND | | | |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | | | |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | | | |
| Naphthalene | 10.0 | ND | ND | | | |
| n-Propylbenzene | 10.0 | ND | ND | | | |
| Styrene | 10.0 | ND | ND | | | |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | | | |
| Toluene (Methyl benzene) | 2.00 | ND | ND | | | |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | | | |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | | | |
| Trichloroethene (TCE) | 10.0 | ND | ND | | | |
| Trichlorofluoromethane | 10.0 | ND | ND | | | |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | | | |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | | | |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | | | |
| Vinyl acetate | 50.0 | ND | ND | | | |

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# ANALYTICAL RESULTS

Page: 5

Project Name: Santa Clarita ONT

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S2C-040116**

| Our Lab I.D. | | 344681 | 344682 | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | HH-8' | HH-10' | | | |
| Date Sampled | | 03/28/2016 | 03/28/2016 | | | |
| Date Prepared | | 04/02/2016 | 04/02/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/02/2016 | 04/02/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | | | |
| o-Xylene | 2.00 | ND | ND | | | |
| m- & p-Xylenes | 4.00 | ND | ND | | | |

| Our Lab I.D. | | 344681 | 344682 | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 100 | 100 | | | |
| Dibromofluoromethane | 70-120 | 82 | 84 | | | |
| Toluene-d8 | 70-120 | 86 | 87 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S2C-040116**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 120 | 114 | 5.1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 120 | 120 | <1 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 104 | 110 | 5.6 | 75-120 | 15 | | | | | |
| MTBE | 114 | 111 | 2.7 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 115 | 113 | 1.8 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 108 | 104 | 3.8 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **6**

Project Name: Santa Clarita ONT

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67329 | 03/30/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S2C-040116**

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | HH-8' | HH-10' | | | |
| Date Sampled | | 03/28/2016 | 03/28/2016 | | | |
| Date Prepared | | 04/02/2016 | 04/02/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/02/2016 | 04/02/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH GROs (C6 to C10) | 500 | ND | ND | | | |

| **Our Lab I.D.** | | **344681** | **344682** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 100 | 100 | | | |
| Dibromofluoromethane | 70-120 | 82 | 84 | | | |
| Toluene-d8 | 70-120 | 86 | 87 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S2C-040116**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 120 | 114 | 5.1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 120 | 120 | <1 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 106 | 110 | 3.7 | 75-120 | 15 | | | | | |
| MTBE | 114 | 111 | 2.7 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 115 | 113 | 1.8 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 108 | 104 | 3.8 | 75-120 | 15 | | | | | |

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**Ordered By**

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2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone (805)504-6166
Attn Wally A. Jensky

Number of Pages 6
Date Received 04/08/2016
Date Reported 04/15/2016

| Job Number | Ordered | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

---

**Project ID:** E751A
**Project Name:** Santa Clarita OTN Parking
**Site:** 9th Street & Railroad Ave.
Santa Clarita, CA

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Wendy Lu
Organics Supervisor

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:
1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

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COC# № 68329 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 67385

| | | |
|---|---|---|
| Company: JHA Environ; Ventura, CA. | | Report To: Carol Shestag/Wally Jansky |
| Address: 2646 Palma Ave; #450 Ventura, CA. 93003 | Project Name: Santa Clarita OTN Parking | Address: JHA Ventura |
| | Site Address: 9th Street & Railroad Ave. | Invoice To: Carol Shestag/Wally Jansky |
| Telephone: Fax: (805) 509-0377 Carol's cell | Santa Clarita, CA. | Address: JHA Ventura |
| Special Instruction: — | Project ID: E751A | — |
| E-mail: cshestag@jacobandhefner.com | Project Manager: Carol Shestag/Wally Jansky | P.O.#: E751A |

ANALYSIS REQUESTED

| ITEM | LAB USE ONLY Lab ID | SAMPLE DESCRIPTION Sample ID | Date | Time | Container(s) # | Type | Matrix | Preservation | M8015 TPHd & TPHg (8015M) | 8260B Full Scan VOCs/TPHg (8260B) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 344919 | LT-6.5' | 4/7/16 | 10:30 | 1 2 | 4 oz Jar 5gm Encore | Soil | — | X | X | |
| | 344920 | LT-8' | 4/7/16 | 10:50 | 1 2 | " " | " | — | X | X | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Collected By: [signature] | Date 4/7/16 | Time 11:00 | Relinquished By: [signature] | Date 4/7/16 | Time 12:00 | TAT | |
| Relinquished By: CB Shestag | Date 4/7/2016 | Time 12:00 | Received For Laboratory: Alex | Date 4-8-16 | Time 10:40 | ☒ Normal | |
| Received By: | Date | Time | Condition of Sample: | | | ☐ Rush | |

CHAIN OF CUSTODY RECORD

White - Report, Yellow - Laboratory, Pink - Client

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Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **2**

Project ID: E751A
Project Name: Santa Clarita OTN Parking

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1D-040816**

| **Our Lab I.D.** | | **344919** | **344920** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | LT-6.5' | LT-8' | | | |
| Date Sampled | | 04/07/2016 | 04/07/2016 | | | |
| Date Prepared | | 04/08/2016 | 04/08/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/08/2016 | 04/08/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | mg/Kg | mg/Kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | | | |
| TPH OROs (C28+) | 50.0 | ND | ND | | | |

| **Our Lab I.D.** | | **344919** | **344920** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 89 | 91 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1D-040816**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 94 | 95 | 1.1 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **3**

Project ID: E751A
Project Name: Santa Clarita OTN Parking

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-041116**

| **Our Lab I.D.** | | **344919** | **344920** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | LT-6.5' | LT-8' | | | |
| Date Sampled | | 04/07/2016 | 04/07/2016 | | | |
| Date Prepared | | 04/11/2016 | 04/11/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/11/2016 | 04/11/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| Acetone | 50.0 | ND | ND | | | |
| Benzene | 2.00 | ND | ND | | | |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | | | |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | | | |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | | | |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | | | |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | | | |
| n-Butylbenzene | 10.0 | ND | ND | | | |
| sec-Butylbenzene | 10.0 | ND | ND | | | |
| tert-Butylbenzene | 10.0 | ND | ND | | | |
| Carbon disulfide | 10.0 | ND | ND | | | |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | | | |
| Chlorobenzene | 10.0 | ND | ND | | | |
| Chloroethane | 30.0 | ND | ND | | | |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | | | |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | | | |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | | | |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | | | |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | | | |
| Dibromochloromethane | 10.0 | ND | ND | | | |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | | | |
| Dibromomethane | 10.0 | ND | ND | | | |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | | | |
| Dichlorodifluoromethane | 30.0 | ND | ND | | | |
| 1,1-Dichloroethane | 10.0 | ND | ND | | | |

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# ANALYTICAL RESULTS

Page: 4

Project ID: E751A
Project Name: Santa Clarita OTN Parking

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-041116**

| Our Lab I.D. | | 344919 | 344920 | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | LT-6.5' | LT-8' | | | |
| Date Sampled | | 04/07/2016 | 04/07/2016 | | | |
| Date Prepared | | 04/11/2016 | 04/11/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/11/2016 | 04/11/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| 1,2-Dichloroethane | 10.0 | ND | ND | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | | | |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| 1,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,3-Dichloropropane | 10.0 | ND | ND | | | |
| 2,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,1-Dichloropropene | 10.0 | ND | ND | | | |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| Ethylbenzene | 2.00 | ND | ND | | | |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | | | |
| 2-Hexanone | 50.0 | ND | ND | | | |
| Isopropylbenzene | 10.0 | ND | ND | | | |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | | | |
| MTBE | 5.00 | ND | ND | | | |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | | | |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | | | |
| Naphthalene | 10.0 | ND | ND | | | |
| n-Propylbenzene | 10.0 | ND | ND | | | |
| Styrene | 10.0 | ND | ND | | | |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | | | |
| Toluene (Methyl benzene) | 2.00 | ND | ND | | | |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | | | |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | | | |
| Trichloroethene (TCE) | 10.0 | ND | ND | | | |
| Trichlorofluoromethane | 10.0 | ND | ND | | | |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | | | |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | | | |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | | | |
| Vinyl acetate | 50.0 | ND | ND | | | |

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# ANALYTICAL RESULTS

Page: 5

Project ID: E751A
Project Name: Santa Clarita OTN Parking

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-041116**

| Our Lab I.D. | | 344919 | 344920 | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | LT-6.5' | LT-8' | | | |
| Date Sampled | | 04/07/2016 | 04/07/2016 | | | |
| Date Prepared | | 04/11/2016 | 04/11/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/11/2016 | 04/11/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | | | |
| o-Xylene | 2.00 | ND | ND | | | |
| m- & p-Xylenes | 4.00 | ND | ND | | | |

*Comment(s):*
*344919;344920: High surrogate recovery due to matrix.*

| Our Lab I.D. | | 344919 | 344920 | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 138 | 148 | | | |
| Dibromofluoromethane | 70-120 | 114 | 99 | | | |
| Toluene-d8 | 70-120 | 97 | 98 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-041116**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 104 | 105 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 119 | <1 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 103 | 106 | 2.9 | 75-120 | 15 | | | | | |
| MTBE | 98 | 104 | 5.9 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 103 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 99 | 98 | 1.0 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **6**

Project ID: E751A
Project Name: Santa Clarita OTN Parking

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67385 | 04/08/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-041116**

| **Our Lab I.D.** | | **344919** | **344920** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | LT-6.5' | LT-8' | | | |
| Date Sampled | | 04/07/2016 | 04/07/2016 | | | |
| Date Prepared | | 04/11/2016 | 04/11/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/11/2016 | 04/11/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH GROs (C6 to C10) | 500 | ND | ND | | | |

*Comment(s):*
*344919;344920: High surrogate recovery due to matrix.*

| **Our Lab I.D.** | | **344919** | **344920** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 138 | 148 | | | |
| Dibromofluoromethane | 70-120 | 114 | 99 | | | |
| Toluene-d8 | 70-120 | 97 | 98 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-041116**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 104 | 105 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 119 | <1 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 103 | 106 | 2.9 | 75-120 | 15 | | | | | |
| MTBE | 98 | 104 | 5.9 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 103 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 99 | 98 | 1.0 | 75-120 | 15 | | | | | |

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**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone (805)504-6166
Attn Wally A. Jensky

Number of Pages 27
Date Received 04/04/2016
Date Reported 04/11/2016

| Job Number | Ordered | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

---

**Project ID:**
**Project Name:** Santa Clarita OTN Parking Str.
**Site:** 9th Street & Railroad Ave.
Santa Clarita, CA

Enclosed are the results of analyses on 22 samples analyzed as specified on attached chain of custody.

Wendy Lu
Organics Supervisor

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:
1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

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COC# № 72795 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 67353

| | | |
|---|---|---|
| Company: JHA Environ. | | Report To: Carol Shestag/Wally Jensky |
| Address: 2646 Palma Ave, #450 | Project Name: Santa Clarita OTN Parking Structure | Address: JHA Ventura |
| Ventura, CA. 93003 | Site Address: 9th Street & Railroad Ave. | Invoice To: Wally Jensky/Carol Shestag |
| Telephone: (805) 509-0377 Carol's cell / Fax: | Santa Clarita, CA. | Address: JHA Ventura |
| Special Instruction: None | Project ID: | |
| E-mail: cshestag@jacobandhefner.com | Project Manager: Carol Shestag/Wally Jensky | P.O.#: E751A |

ANALYSIS REQUESTED

CHAIN OF CUSTODY RECORD

| ITEM | LAB USE ONLY Lab ID | SAMPLE DESCRIPTION Sample ID | Date | Time | Container(s) # | Container(s) Type | Matrix | Preservation | TPHd/TPHo (8015M) | TPHg/full-scan VOCs (8260B) | Hold @ lab | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JHA-B-1-5' | 4/1/2016 | 0845 | 4 | 1 ring(brass) 3 Encores | Soil | Ice | (CBS) | | (X) | |
| 1 | 344744 | JHA-B-1-10' | " | 0855 | 4 | " | " | " | X | X | | |
| 2 | 344745 | JHA-B-1-15' | " | 0905 | 4 | " | " | " | X | X | | |
| 3 | 344746 | JHA-B-1-20' | " | 0915 | 4 | " | " | " | X | X | | |
| 4 | 344747 | JHA-B-1-25' | " | 0925 | 4 | " | " | " | X | X | | |
| 5 | 344748 | JHA-B-2-5' | " | 0955 | 4 | " | " | " | X | X | | 3 Encore in 1 Bag |
| 6 | 344749 | JHA-B-2-10' | " | 10:05 | 4 | " | " | " | X | X | | |
| | | JHA-B-2-15' | " | 10:15 | 4 | " | " | " | | | (X) | |
| 7 | 344750 | JHA-B-2-20' | " | 10:25 | 4 | " | " | " | X | X | | |
| 8 | 344751 | JHA-B-2-25' | " | 10:35 | 4 | " | " | " | X | X | | |

| | | | |
|---|---|---|---|
| Collected By: [signature] | Date 4/1/2016 Time 6:15pm | Relinquished By: [signature] | Date 4/4/16 Time 1125 |
| Relinquished By: | Date Time | Received For Laboratory: [signature] | Date 4-4-16 Time 1125 |
| Received By: | Date Time | Condition of Sample: | |

TAT 1.5 weeks ☒ Normal ☐ Rush

White - Report, Yellow - Laboratory, Pink - Client

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COC# № 72796 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 67353

| | | | |
|---|---|---|---|
| Company: JHA Environ. | | Report To: Carol Shestag/Wally Jansky | ANALYSIS REQUESTED |
| Address: 2646 Palma Ave, #450 | Project Name: Santa Clarita OTN Parking | Address: JHA Ventura | |
| Ventura, CA. 93003 | Site Address: 9th Street & Railroad Ave. | Invoice To: Carol Shestag/Wally Jansky | |
| Telephone: (805) 509-0377 Carol's cell | Santa Clarita, CA. | Address: JHA Ventura | |
| Special Instruction: None | Project ID: | | |
| E-mail: cshestag@jacobandhefner.com | Project Manager: Carol Shestag/Wally Jansky | P.O.#: E751A | |

| ITEM | LAB USE ONLY Lab ID | SAMPLE DESCRIPTION Sample ID | Date | Time | Container(s) # | Type | Matrix | Preservation | TPHd/TPHo (8015M) | TPHg/Full-Scan VOCs (8260B) | Hold @ Lab | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 344752 | JHA-B-3-5' | 4/1/2016 | 11:05 | 4 | 1 ring (Brass) 3 Encores | Soil | Ice | x | x | | 3 Encore in 1 bag |
| | | JHA-B-3-10' | " | 11:15 | 4 | " | " | " | | | ⊗ | |
| 10 | 344753 | JHA-B-3-15' | " | 11:25 | 4 | " | " | " | x | x | | |
| 11 | 344754 | JHA-B-3-20' | " | 11:35 | 4 | " | " | " | x | x | | |
| 12 | 344755 | JHA-B-3-25' | " | 11:45 | 4 | " | " | " | x | x | | |
| 13 | 344756 | JHA-B-4-5' | " | 12:10pm | 4 | " | " | " | x | x | | |
| 14 | 344757 | JHA-B-4-10' | " | 12:20pm | 4 | " | " | " | x | x | | |
| 15 | 344758 | JHA-B-4-15' | " | 12:30pm | 4 | " | " | " | x | x | | |
| | | JHA-B-4-20' | " | 12:40pm | 4 | " | " | " | | | ⊗ | |
| 16 | 344759 | JHA-B-4-25' | " | 12:50pm | 4 | " | " | " | x | x | | ↓ |

| | | | |
|---|---|---|---|
| Collected By: CBHerg | Date 4/1/2016 | Time 6:15pm | Relinquished By: [signature] Date 4/4/16 Time 1125 |
| Relinquished By: | Date | Time | Received For Laboratory [signature] Date 4-4-16 Time 1125 |
| Received By: | Date | Time | Condition of Sample: |

TAT 1.5 weeks ☒ Normal ☐ Rush

CHAIN OF CUSTODY RECORD

White - Report, Yellow - Laboratory, Pink - Client

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COC# № 72797 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 67353

| | | | |
|---|---|---|---|
| Company: JHA Environ. | | Report To: Carol Shestag/Wally Jersky | ANALYSIS REQUESTED |
| Address: 2646 Palma Ave, # 450 | Project Name: Santa Clarita OTN Parking | Address: JHA Ventura | |
| Ventura, CA. 93003 | Site Address: 9th Street & Railroad Ave. | Invoice To: Carol Shestag/Wally Jersky | |
| Telephone: ~~Fax~~ (805) 509-0377 Carol's cell | Santa Clarita, CA. | Address: JHA Ventura | |
| Special Instruction: None | Project ID: | | |
| E-mail: cshestag@jacobandhefner.com | Project Manager: Carol Shestag/Wally Jersky | P.O.#: E751A | |

| ITEM | LAB USE ONLY Lab ID | SAMPLE DESCRIPTION Sample ID | Date | Time | Container(s) # | Type | Matrix | Preservation | | | TPHd/TPHo (8015M) | | TPHg/full-scan VOCs (8260B) | | | | | | Hold @ lab | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 344760 | JHA-B-5-5' | 4/1/2016 | 14:30 | 4 | 1 ring (brass) 3 Encores | Soil | Ice | | | X | | X | | | | | | | 3 Encore in 1 Bag |
| 18 | 344761 | JHA-B-5-10' | " | 14:40 | 4 | " | " | " | | | X | | X | | | | | | | |
| 19 | 344762 | JHA-B-6-5' | " | 15:15 | 4 | " | " | " | | | X | | X | | | | | | | |
| 20 | 344763 | JHA-B-6-10' | " | 15:25 | 4 | " | " | " | | | X | | X | | | | | | | |
| 21 | 344764 | JHA-B-7-~~23.5'~~ 23' to 23.5' | " | 15:50 | 4 | " | " | " | | | X | | X | | | | | | | |
| 22 | 344765 | JHA-B-7-23.5' to 24' | " | 15:58 | 4 | " | " | " | | | X | | X | | | | | | | |

| | | | |
|---|---|---|---|
| Collected By: CShestag | Date 4/1/2016 Time 6:15pm | Relinquished By: [illegible] | Date 4/4/16 Time 1125 |
| Relinquished By: | Date Time | Received For Laboratory: Alla | Date 4-4-16 Time 1125 |
| Received By: | Date Time | Condition of Sample: | |

TAT 1.5 weeks ☒ Normal ☐ Rush

White - Report, Yellow - Laboratory, Pink - Client

CHAIN OF CUSTODY RECORD

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **2**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1D-040516**

| Our Lab I.D. | | 344755 | 344756 | 344757 | 344758 | 344759 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-25' | JHA-B-4-5' | JHA-B-4-10' | JHA-B-4-15' | JHA-B-4-25' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | ND | ND | ND |
| TPH OROs (C28+) | 50.0 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344755 | 344756 | 344757 | 344758 | 344759 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 82 | 85 | 82 | 79 | 82 |

# QUALITY CONTROL REPORT

**QC Batch No: S1D-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 95 | 99 | 4.1 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **3**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1D-040516**

| Our Lab I.D. | | 344760 | 344761 | 344762 | 344763 | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-5-5' | JHA-B-5-10' | JHA-B-6-5' | JHA-B-6-10' | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | |
| Matrix | | Soil | Soil | Soil | Soil | |
| Units | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | |
| Dilution Factor | | 1 | 1 | 1 | 1 | |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | ND | 15.2 | |
| TPH OROs (C28+) | 50.0 | ND | ND | ND | ND | |

| Our Lab I.D. | | 344760 | 344761 | 344762 | 344763 | |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 79 | 82 | 83 | 83 | |

# QUALITY CONTROL REPORT

**QC Batch No: S1D-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 95 | 99 | 4.1 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1P-040516**

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-1-10' | JHA-B-1-15' | JHA-B-1-20' | JHA-B-1-25' | JHA-B-2-5' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | ND | ND | ND |
| TPH OROs (C28+) | 50.0 | ND | ND | ND | ND | 110 |

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 96 | 95 | 97 | 98 | 95 |

# QUALITY CONTROL REPORT

**QC Batch No: S1P-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 103 | 104 | <1 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

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**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **5**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1P-040516**

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-2-10' | JHA-B-2-20' | JHA-B-2-25' | JHA-B-3-5' | JHA-B-3-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH DROs (C10 to C28) | 10.0 | ND | ND | ND | ND | ND |
| TPH OROs (C28+) | 50.0 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 96 | 97 | 98 | 99 | 98 |

# QUALITY CONTROL REPORT

**QC Batch No: S1P-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 103 | 104 | <1 | 75-120 | <20 | | | | | |

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Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1P-040516**

| **Our Lab I.D.** | | **344754** | | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-20' | | | | |
| Date Sampled | | **04/01/2016** | | | | |
| Date Prepared | | **04/05/2016** | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | **04/05/2016** | | | | |
| Matrix | | Soil | | | | |
| Units | | mg/Kg | | | | |
| Dilution Factor | | 1 | | | | |
| **Analytes** | **PQL** | **Results** | | | | |
| TPH DROs (C10 to C28) | **10.0** | **ND** | | | | |
| TPH OROs (C28+) | **50.0** | **ND** | | | | |

| **Our Lab I.D.** | | **344754** | | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | **70-120** | **99** | | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1P-040516**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | **103** | **104** | **<1** | **75-120** | **<20** | | | | | |

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Page: **7**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8015B, TPH DROs and OROs (Diesel and Oil Range Organics)

**QC Batch No: S1P-040616**

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-7-23' to 23.5' | JHA-B-7-23.5 ' to 24' | | | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | | | |
| Date Prepared | | 04/05/2016 | 04/06/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/06/2016 | 04/06/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | mg/Kg | mg/Kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH DROs (C10 to C28) | 10.0 | 3390 | 782 | | | |
| TPH OROs (C28+) | 50.0 | 4830 | 498 | | | |

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Chlorobenzene | 70-120 | 99 | 96 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1P-040616**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | 104 | 102 | 1.9 | 75-120 | <20 | | | | | |

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# ANALYTICAL RESULTS

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**Site**

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Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344744** | **344745** | **344746** | **344747** | **344748** |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-1-10' | JHA-B-1-15' | JHA-B-1-20' | JHA-B-1-25' | JHA-B-2-5' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Acetone | 50.0 | ND | ND | ND | ND | ND |
| Benzene | 2.00 | ND | ND | ND | ND | ND |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | ND | ND | ND |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | ND | ND | ND |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| n-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| tert-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Carbon disulfide | 10.0 | ND | ND | ND | ND | ND |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| Chloroethane | 30.0 | ND | ND | ND | ND | ND |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | ND | ND | ND |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | ND | ND | ND |
| Dibromomethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 30.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-1-10' | JHA-B-1-15' | JHA-B-1-20' | JHA-B-1-25' | JHA-B-2-5' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| 1,2-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| Ethylbenzene | 2.00 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 | ND | ND | ND | ND | ND |
| Isopropylbenzene | 10.0 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | ND | ND | ND |
| MTBE | 5.00 | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | ND | ND | ND |
| Naphthalene | 10.0 | ND | ND | ND | ND | ND |
| n-Propylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Styrene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| Toluene (Methyl benzene) | 2.00 | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| Trichloroethene (TCE) | 10.0 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Vinyl acetate | 50.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-1-10' | JHA-B-1-15' | JHA-B-1-20' | JHA-B-1-25' | JHA-B-2-5' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | ND | ND | ND |
| o-Xylene | 2.00 | ND | ND | ND | ND | ND |
| m- & p-Xylenes | 4.00 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 112 | 100 | 118 | 96 | 114 |
| Dibromofluoromethane | 70-120 | 98 | 72 | 77 | 76 | 74 |
| Toluene-d8 | 70-120 | 93 | 93 | 89 | 95 | 94 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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Attn: Wally A. Jensky

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Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-2-10' | JHA-B-2-20' | JHA-B-2-25' | JHA-B-3-5' | JHA-B-3-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Acetone | 50.0 | ND | ND | ND | ND | ND |
| Benzene | 2.00 | ND | ND | ND | ND | ND |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | ND | ND | ND |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | ND | ND | ND |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| n-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| tert-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Carbon disulfide | 10.0 | ND | ND | ND | ND | ND |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| Chloroethane | 30.0 | ND | ND | ND | ND | ND |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | ND | ND | ND |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | ND | ND | ND |
| Dibromomethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 30.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-2-10' | JHA-B-2-20' | JHA-B-2-25' | JHA-B-3-5' | JHA-B-3-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| 1,2-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| Ethylbenzene | 2.00 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 | ND | ND | ND | ND | ND |
| Isopropylbenzene | 10.0 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | ND | ND | ND |
| MTBE | 5.00 | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | ND | ND | ND |
| Naphthalene | 10.0 | ND | ND | ND | ND | ND |
| n-Propylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Styrene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| Toluene (Methyl benzene) | 2.00 | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| Trichloroethene (TCE) | 10.0 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Vinyl acetate | 50.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-2-10' | JHA-B-2-20' | JHA-B-2-25' | JHA-B-3-5' | JHA-B-3-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | ND | ND | ND |
| o-Xylene | 2.00 | ND | ND | ND | ND | ND |
| m- & p-Xylenes | 4.00 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344749 | 344750 | 344751 | 344752 | 344753 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 106 | 112 | 95 | 106 | 100 |
| Dibromofluoromethane | 70-120 | 73 | 81 | 81 | 74 | 80 |
| Toluene-d8 | 70-120 | 96 | 90 | 97 | 95 | 97 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344754** | **344755** | **344756** | **344757** | **344758** |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-20' | JHA-B-3-25' | JHA-B-4-5' | JHA-B-4-10' | JHA-B-4-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Acetone | 50.0 | ND | ND | ND | ND | ND |
| Benzene | 2.00 | ND | ND | ND | ND | ND |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | ND | ND | ND |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | ND | ND | ND |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| n-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| tert-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Carbon disulfide | 10.0 | ND | ND | ND | ND | ND |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| Chloroethane | 30.0 | ND | ND | ND | ND | ND |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | ND | ND | ND |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | ND | ND | ND |
| Dibromomethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 30.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344754 | 344755 | 344756 | 344757 | 344758 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-20' | JHA-B-3-25' | JHA-B-4-5' | JHA-B-4-10' | JHA-B-4-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| 1,2-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| Ethylbenzene | 2.00 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 | ND | ND | ND | ND | ND |
| Isopropylbenzene | 10.0 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | ND | ND | ND |
| MTBE | 5.00 | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | ND | ND | ND |
| Naphthalene | 10.0 | ND | ND | ND | ND | ND |
| n-Propylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Styrene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| Toluene (Methyl benzene) | 2.00 | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| Trichloroethene (TCE) | 10.0 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Vinyl acetate | 50.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344754 | 344755 | 344756 | 344757 | 344758 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-20' | JHA-B-3-25' | JHA-B-4-5' | JHA-B-4-10' | JHA-B-4-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | ND | ND | ND |
| o-Xylene | 2.00 | ND | ND | ND | ND | ND |
| m- & p-Xylenes | 4.00 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344754 | 344755 | 344756 | 344757 | 344758 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 108 | 102 | 113 | 100 | 99 |
| Dibromofluoromethane | 70-120 | 88 | 74 | 81 | 83 | 88 |
| Toluene-d8 | 70-120 | 94 | 95 | 97 | 94 | 97 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344759 | 344760 | 344761 | 344762 | 344763 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-4-25' | JHA-B-5-5' | JHA-B-5-10' | JHA-B-6-5' | JHA-B-6-10' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Acetone | 50.0 | ND | ND | ND | ND | ND |
| Benzene | 2.00 | ND | ND | ND | ND | ND |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | ND | ND | ND |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | ND | ND | ND |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | ND | ND | ND |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | ND | ND | ND |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| n-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| tert-Butylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Carbon disulfide | 10.0 | ND | ND | ND | ND | ND |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| Chloroethane | 30.0 | ND | ND | ND | ND | ND |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | ND | ND | ND |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | ND | ND | ND |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | ND | ND | ND |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | ND | ND | ND |
| Dibromomethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 30.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344759 | 344760 | 344761 | 344762 | 344763 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-4-25' | JHA-B-5-5' | JHA-B-5-10' | JHA-B-6-5' | JHA-B-6-10' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| 1,2-Dichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 2,2-Dichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,1-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | ND | ND | ND |
| Ethylbenzene | 2.00 | ND | ND | ND | ND | ND |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 | ND | ND | ND | ND | ND |
| Isopropylbenzene | 10.0 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | ND | ND | ND |
| MTBE | 5.00 | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | ND | ND | ND |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | ND | ND | ND |
| Naphthalene | 10.0 | ND | ND | ND | ND | ND |
| n-Propylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Styrene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | ND | ND | ND |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | ND | ND | ND |
| Toluene (Methyl benzene) | 2.00 | ND | ND | ND | ND | ND |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | ND | ND | ND |
| Trichloroethene (TCE) | 10.0 | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | ND | ND | ND |
| Vinyl acetate | 50.0 | ND | ND | ND | ND | ND |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344759 | 344760 | 344761 | 344762 | 344763 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-4-25' | JHA-B-5-5' | JHA-B-5-10' | JHA-B-6-5' | JHA-B-6-10' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | ND | ND | ND |
| o-Xylene | 2.00 | ND | ND | ND | ND | ND |
| m- & p-Xylenes | 4.00 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344759 | 344760 | 344761 | 344762 | 344763 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 110 | 119 | 114 | 110 | 111 |
| Dibromofluoromethane | 70-120 | 81 | 93 | 85 | 90 | 92 |
| Toluene-d8 | 70-120 | 96 | 94 | 94 | 96 | 94 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-7-23' to 23.5' | JHA-B-7-23.5 ' to 24' | | | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | | | |
| Date Prepared | | 04/05/2016 | 04/05/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| Acetone | 50.0 | ND | ND | | | |
| Benzene | 2.00 | ND | ND | | | |
| Bromobenzene (Phenyl bromide) | 10.0 | ND | ND | | | |
| Bromochloromethane (Chlorobromomethane) | 10.0 | ND | ND | | | |
| Bromodichloromethane (Dichlorobromomethane) | 10.0 | ND | ND | | | |
| Bromoform (Tribromomethane) | 50.0 | ND | ND | | | |
| Bromomethane (Methyl bromide) | 30.0 | ND | ND | | | |
| 2-Butanone (MEK, Methyl ethyl ketone) | 50.0 | ND | ND | | | |
| n-Butylbenzene | 10.0 | ND | ND | | | |
| sec-Butylbenzene | 10.0 | ND | ND | | | |
| tert-Butylbenzene | 10.0 | ND | ND | | | |
| Carbon disulfide | 10.0 | ND | ND | | | |
| Carbon tetrachloride (Tetrachloromethane) | 10.0 | ND | ND | | | |
| Chlorobenzene | 10.0 | ND | ND | | | |
| Chloroethane | 30.0 | ND | ND | | | |
| 2-Chloroethyl vinyl ether | 50.0 | ND | ND | | | |
| Chloroform (Trichloromethane) | 10.0 | ND | ND | | | |
| Chloromethane (Methyl chloride) | 30.0 | ND | ND | | | |
| 4-Chlorotoluene (p-Chlorotoluene) | 10.0 | ND | ND | | | |
| 2-Chlorotoluene (o-Chlorotoluene) | 10.0 | ND | ND | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50.0 | ND | ND | | | |
| Dibromochloromethane | 10.0 | ND | ND | | | |
| 1,2-Dibromoethane (EDB, Ethylene dibromide) | 10.0 | ND | ND | | | |
| Dibromomethane | 10.0 | ND | ND | | | |
| 1,2-Dichlorobenzene (o-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | 10.0 | ND | ND | | | |
| 1,4-Dichlorobenzene (p-Dichlorobenzene) | 10.0 | ND | ND | | | |
| Dichlorodifluoromethane | 30.0 | ND | ND | | | |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-7-23' to 23.5' | JHA-B-7-23.5' to 24' | | | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | | | |
| Date Prepared | | 04/05/2016 | 04/05/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| 1,1-Dichloroethane | 10.0 | ND | ND | | | |
| 1,2-Dichloroethane | 10.0 | ND | ND | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 10.0 | ND | ND | | | |
| cis-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| trans-1,2-Dichloroethene | 10.0 | ND | ND | | | |
| 1,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,3-Dichloropropane | 10.0 | ND | ND | | | |
| 2,2-Dichloropropane | 10.0 | ND | ND | | | |
| 1,1-Dichloropropene | 10.0 | ND | ND | | | |
| cis-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| trans-1,3-Dichloropropene | 10.0 | ND | ND | | | |
| Ethylbenzene | 2.00 | ND | ND | | | |
| Hexachlorobutadiene (1,3-Hexachlorobutadiene) | 30.0 | ND | ND | | | |
| 2-Hexanone | 50.0 | ND | ND | | | |
| Isopropylbenzene | 10.0 | ND | ND | | | |
| p-Isopropyltoluene (4-Isopropyltoluene) | 10.0 | ND | ND | | | |
| MTBE | 5.00 | ND | ND | | | |
| 4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone) | 50.0 | ND | ND | | | |
| Methylene chloride (Dichloromethane, DCM) | 50.0 | ND | ND | | | |
| Naphthalene | 10.0 | ND | ND | | | |
| n-Propylbenzene | 10.0 | ND | ND | | | |
| Styrene | 10.0 | ND | ND | | | |
| 1,1,1,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| 1,1,2,2-Tetrachloroethane | 10.0 | ND | ND | | | |
| Tetrachloroethene (Tetrachloroethylene) | 10.0 | ND | ND | | | |
| Toluene (Methyl benzene) | 2.00 | ND | ND | | | |
| 1,2,3-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,2,4-Trichlorobenzene | 10.0 | ND | ND | | | |
| 1,1,1-Trichloroethane | 10.0 | ND | ND | | | |
| 1,1,2-Trichloroethane | 10.0 | ND | ND | | | |
| Trichloroethene (TCE) | 10.0 | ND | ND | | | |
| Trichlorofluoromethane | 10.0 | ND | ND | | | |
| 1,2,3-Trichloropropane | 10.0 | ND | ND | | | |
| 1,2,4-Trimethylbenzene | 10.0 | ND | ND | | | |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, Volatile Organic Compounds

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344764 | 344765 | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-7-23' to 23.5' | JHA-B-7-23.5' to 24' | | | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | | | |
| Date Prepared | | 04/05/2016 | 04/05/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| 1,3,5-Trimethylbenzene | 10.0 | ND | ND | | | |
| Vinyl acetate | 50.0 | ND | ND | | | |
| Vinyl chloride (Chloroethene) | 30.0 | ND | ND | | | |
| o-Xylene | 2.00 | ND | ND | | | |
| m- & p-Xylenes | 4.00 | ND | ND | | | |

| Our Lab I.D. | | 344764 | 344765 | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 117 | 120 | | | |
| Dibromofluoromethane | 70-120 | 102 | 94 | | | |
| Toluene-d8 | 70-120 | 84 | 94 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
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Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-1-10' | JHA-B-1-15' | JHA-B-1-20' | JHA-B-1-25' | JHA-B-2-5' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH GROs (C6 to C10) | 500 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344744 | 344745 | 344746 | 344747 | 344748 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 112 | 100 | 118 | 96 | 114 |
| Dibromofluoromethane | 70-120 | 98 | 72 | 77 | 76 | 74 |
| Toluene-d8 | 70-120 | 93 | 93 | 89 | 95 | 94 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344749** | **344750** | **344751** | **344752** | **344753** |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-2-10' | JHA-B-2-20' | JHA-B-2-25' | JHA-B-3-5' | JHA-B-3-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH GROs (C6 to C10) | 500 | ND | ND | ND | ND | ND |

| **Our Lab I.D.** | | **344749** | **344750** | **344751** | **344752** | **344753** |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | **% Rec.** | **% Rec.** | **% Rec.** |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 106 | 112 | 95 | 106 | 100 |
| Dibromofluoromethane | 70-120 | 73 | 81 | 81 | 74 | 80 |
| Toluene-d8 | 70-120 | 96 | 90 | 97 | 95 | 97 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

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Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-040516**

| Our Lab I.D. | | 344754 | 344755 | 344756 | 344757 | 344758 |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-3-20' | JHA-B-3-25' | JHA-B-4-5' | JHA-B-4-10' | JHA-B-4-15' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH GROs (C6 to C10) | 500 | ND | ND | ND | ND | ND |

| Our Lab I.D. | | 344754 | 344755 | 344756 | 344757 | 344758 |
|---|---|---|---|---|---|---|
| **Surrogates** | % Rec.Limit | % Rec. | % Rec. | % Rec. | % Rec. | % Rec. |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 108 | 102 | 113 | 100 | 99 |
| Dibromofluoromethane | 70-120 | 88 | 74 | 81 | 83 | 88 |
| Toluene-d8 | 70-120 | 94 | 95 | 97 | 94 | 97 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| Analytes | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **26**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344759** | **344760** | **344761** | **344762** | **344763** |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-4-25' | JHA-B-5-5' | JHA-B-5-10' | JHA-B-6-5' | JHA-B-6-10' |
| Date Sampled | | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 | 04/01/2016 |
| Date Prepared | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 | 04/05/2016 |
| Matrix | | Soil | Soil | Soil | Soil | Soil |
| Units | | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Dilution Factor | | 1 | 1 | 1 | 1 | 1 |
| **Analytes** | **PQL** | **Results** | **Results** | **Results** | **Results** | **Results** |
| TPH GROs (C6 to C10) | 500 | ND | ND | ND | ND | ND |

| **Our Lab I.D.** | | **344759** | **344760** | **344761** | **344762** | **344763** |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | **% Rec.** | **% Rec.** | **% Rec.** |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 110 | 119 | 114 | 110 | 111 |
| Dibromofluoromethane | 70-120 | 81 | 93 | 85 | 90 | 92 |
| Toluene-d8 | 70-120 | 96 | 94 | 94 | 96 | 94 |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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Telephone: (805)504-6166
Attn: Wally A. Jensky

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **27**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67353 | 04/04/2016 | JACHEF |

## Method: 8260B, TPH GROs(Gasoline Range Organics)

**QC Batch No: S1C-040516**

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | JHA-B-7-23' to 23.5' | JHA-B-7-23.5 ' to 24' | | | |
| Date Sampled | | 04/01/2016 | 04/01/2016 | | | |
| Date Prepared | | 04/05/2016 | 04/05/2016 | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/05/2016 | 04/05/2016 | | | |
| Matrix | | Soil | Soil | | | |
| Units | | ug/kg | ug/kg | | | |
| Dilution Factor | | 1 | 1 | | | |
| **Analytes** | **PQL** | **Results** | **Results** | | | |
| TPH GROs (C6 to C10) | 500 | ND | ND | | | |

| **Our Lab I.D.** | | **344764** | **344765** | | | |
|---|---|---|---|---|---|---|
| **Surrogates** | **% Rec.Limit** | **% Rec.** | **% Rec.** | | | |
| **Surrogate Percent Recovery** | | | | | | |
| Bromofluorobenzene | 70-120 | 117 | 120 | | | |
| Dibromofluoromethane | 70-120 | 102 | 94 | | | |
| Toluene-d8 | 70-120 | 84 | 94 | | | |

# QUALITY CONTROL REPORT

**QC Batch No: S1C-040516**

| **Analytes** | MS % REC | MS DUP % REC | RPD % | MS/MSD % Limit | MS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 101 | 100 | <1 | 75-120 | 15 | | | | | |
| Chlorobenzene | 119 | 114 | 4.3 | 75-120 | 15 | | | | | |
| 1,1-Dichloroethene (1,1-Dichloroethylene) | 82 | 82 | <1 | 75-120 | 15 | | | | | |
| MTBE | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |
| Toluene (Methyl benzene) | 103 | 102 | <1 | 75-120 | 15 | | | | | |
| Trichloroethene (TCE) | 96 | 94 | 2.1 | 75-120 | 15 | | | | | |

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**Ordered By**

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2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone (805)504-6166
Attn Carol Shestag

Number of Pages 4
Date Received 04/04/2016
Date Reported 04/21/2016

| Job Number | Ordered | Client |
|---|---|---|
| 67454 | 04/18/2016 | JACHEF |

---

**Project ID:**
**Project Name:** Santa Clarita OTN Parking Str.
**Site:** 9th Street & Railroad Ave.
Santa Clarita, CA

Enclosed are the results of analyses on 1 sample analyzed as specified on attached chain of custody.

Wendy Lu
Organics Supervisor

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:
1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

**From:** Carol Shestag [mailto:cshestag@jacobandhefner.com]
**Sent:** Monday, April 18, 2016 7:59 AM
**To:** Alen Hosepians
**Subject:** ASL #67353 (Santa Clarita): request for add'l analyses, please
**Importance:** High

**Additional Request : 4/18/16** **3 Day Rush** **New Job # 67454**
**Report Due : 4/21/16**

Composite the following 6 samples into one sample, label the single sample "DC-1", and analyze it for CAM 17 metals (TTLC) and for pH **(3-day RUSH)**

| New Sample ID | Sample Date | Analysis | New Lab ID |
|---|---|---|---|
| DC-1 | 4/01/2016 | CAM 17 Metals and PH | 345324 |

**Composite 6 sampls into 1, see below.**

**344744 (B-1-10')**
**344750 (B-2-20')**
**344752 (B-3-5')**
**344759 (B-4-25')**
**344761 (B-5-10')**
**344762 (B-6-5')**

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# ANALYTICAL RESULTS

**Ordered By**

Jacob & Hefner Associates, Inc.
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Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Carol Shestag

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **2**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67454 | 04/04/2016 | JACHEF |

## Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

**QC Batch No: 041916-7**

| **Our Lab I.D.** | | **345324** | | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | DC-1 | | | | |
| Date Sampled | | 04/01/2016 | | | | |
| Date Prepared | | 04/19/2016 | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | 04/19/2016 | | | | |
| Matrix | | Soil | | | | |
| Units | | mg/Kg | | | | |
| Dilution Factor | | 1 | | | | |
| **Analytes** | **PQL** | **Results** | | | | |
| **AA Metals** | | | | | | |
| Mercury | 0.0500 | 0.0651 | | | | |
| **ICP Metals** | | | | | | |
| Antimony | 0.500 | ND | | | | |
| Arsenic | 0.250 | 1.48 | | | | |
| Barium | 0.500 | 53.2 | | | | |
| Beryllium | 0.500 | ND | | | | |
| Cadmium | 0.500 | ND | | | | |
| Chromium | 0.500 | 5.43 | | | | |
| Cobalt | 0.500 | 4.11 | | | | |
| Copper | 0.500 | 5.13 | | | | |
| Lead | 0.250 | 1.80 | | | | |
| Molybdenum | 0.500 | ND | | | | |
| Nickel | 0.500 | 5.15 | | | | |
| Selenium | 0.500 | ND | | | | |
| Silver | 0.500 | ND | | | | |
| Thallium | 0.500 | ND | | | | |
| Vanadium | 0.500 | 17.1 | | | | |
| Zinc | 0.500 | 21.0 | | | | |

# QUALITY CONTROL REPORT

**QC Batch No: 041916-7**

| **Analytes** | LCS % REC | LCS/LCSD % Limit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **AA Metals** | | | | | | | | | | |
| Mercury | 94 | 80-120 | | | | | | | | |
| **ICP Metals** | | | | | | | | | | |
| Antimony | 94 | 80-120 | | | | | | | | |
| Arsenic | 93 | 80-120 | | | | | | | | |

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# ANALYTICAL RESULTS



Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67454 | 04/04/2016 | JACHEF |

Method: 6010B/7471A, CCR Title 22 Metals (TTLC)

## QUALITY CONTROL REPORT

**QC Batch No: 041916-7**

| Analytes | LCS % REC | LCS/LCSD % Limit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICP Metals** | | | | | | | | | | |
| Barium | 94 | 80-120 | | | | | | | | |
| Beryllium | 100 | 80-120 | | | | | | | | |
| Cadmium | 93 | 80-120 | | | | | | | | |
| Chromium | 94 | 80-120 | | | | | | | | |
| Cobalt | 94 | 80-120 | | | | | | | | |
| Copper | 97 | 80-120 | | | | | | | | |
| Lead | 95 | 80-120 | | | | | | | | |
| Molybdenum | 91 | 80-120 | | | | | | | | |
| Nickel | 94 | 80-120 | | | | | | | | |
| Selenium | 91 | 80-120 | | | | | | | | |
| Silver | 98 | 80-120 | | | | | | | | |
| Thallium | 97 | 80-120 | | | | | | | | |
| Vanadium | 95 | 80-120 | | | | | | | | |
| Zinc | 95 | 80-120 | | | | | | | | |

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# ANALYTICAL RESULTS

**Ordered By**

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2646 Palma Dr. Suite # 450
Ventura, CA 93003-

Telephone: (805)504-6166
Attn: Carol Shestag

**Site**

9th Street & Railroad Ave.
Santa Clarita, CA

Page: **4**

Project Name: Santa Clarita OTN Parking Str.

| ASL Job Number | Submitted | Client |
|---|---|---|
| 67454 | 04/04/2016 | JACHEF |

## Method: 9045C, Soil and Waste pH

**QC Batch No: 041816-1**

| **Our Lab I.D.** | | **345324** | | | | |
|---|---|---|---|---|---|---|
| Client Sample I.D. | | DC-1 | | | | |
| Date Sampled | | **04/01/2016** | | | | |
| Date Prepared | | **04/18/2016** | | | | |
| Preparation Method | | | | | | |
| Date Analyzed | | **04/18/2016** | | | | |
| Matrix | | Soil | | | | |
| Units | | pH Units | | | | |
| Dilution Factor | | 1 | | | | |
| **Analytes** | **PQL** | **Results** | | | | |
| **Conventionals** | | | | | | |
| pH | **1.00** | **7.21** | | | | |

# QUALITY CONTROL REPORT

**QC Batch No: 041816-1**

| **Analytes** | LCS % REC | LCS DUP % REC | LCS RPD % REC | LCS/LCSD % Limit | LCS RPD % Limit | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Conventionals** | | | | | | | | | | |
| pH | **100** | **100** | **<1** | **80-120** | | | | | | |

JHA ENVIRONMENTAL

# Boring ID#: JHA-B-1 (NW side of "gas" UST)

Sheet: 1 of 1

**Project:** Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A

**Drill Date:** 4/1/2016 **Time:** 08:25 - 09:40am

**Contractor:** J&H Drilling (Antonio=driller) **HSA/Borehole Diameter:** 8"

**Rig Type:** CME 85 **Sampling Method:** CA Modified, 2" OD

**Drilling Method:** Hollow Stem Auger (HSA) **Backfill:** EnviroPlug (bentonite) grout

**Groundwater Encountered (Y/N):** No **Logged by:** C. Shestag

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = soil<br>Hand-augered to 5' bgs |
| 08:45 | 0.0 | 10/13/16 | 4.5'-6' | 15"/18" | JHA-B-1-5' | 5 | AF | **FILL (AF:tank backfill):** Well-Graded Sand (SW), light olive brown (2.5Y 5/4 - 5/6), moist, fine- to coarse-grained sand, trace pea gravel, loose, no HC stain, no HC odor |
| | | | | | | 7 | SM | **Grades to native: SILTY FINE SAND (SM)**, light olive brown (2.5Y 5/6), moist, loose, micaceous, no HC stain, no HC odor |
| 08:55 | 1.0 | 10/12/14 | 9.5'-11' | 15"/18" | JHA-B-1-10' | 10 | SP | **POORLY-GRADED SAND (SP)**, olive yellow (2.5Y 6/6 - 6/8), moist to slightly moist, loose to medium dense, fine-grained sand, rounded grains, no HC stain, no HC odor |
| 09:05 | 1.0 | 10/15/19 | 14.5'-16' | 16"/18" | JHA-B-1-15' | 15 | SW/GW | **GRAVELLY SAND/SANDY GRAVEL (SW/GW)**, yellowish-brown to dark yellowish-brown (10YR 5/6 - 4/6), coarse sand & fine- to medium gravel, slightly moist, no HC stain, no HC odor, medium dense |
| 09:15 | 0.0 | 14/19/23 | 19.5'-21' | 18"/18" | JHA-B-1-20' | 20 | SM/SP | **SILTY FINE SAND/FINE SAND WITH SILT (SM/SP)**, brown (10YR 5/3), slightly moist to dry, medium dense to dense, micaceous, no HC stain, no HC odor |
| 09:25 | 0.0 | 19/26/36 | 24.5'-26' | 18"/18" | JHA-B-1-25' | 25 | SW | **WELL-GRADED SAND (SW)**, yellowish-brown (10YR 5/4), dry, fine- and medium sand, medium dense to dense, no HC stain, no HC odor |
| | | | | | | 30 | | Total Depth = 26 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout. |

JHA ENVIRONMENTAL

# Boring ID#: JHA-B-2 (SW side of "gas" UST)

Sheet: 1 of 1

| | | | |
|---|---|---|---|
| **Project:** | Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A | | |
| **Drill Date:** | 4/1/2016 | **Time:** | 09:40 - 10:55am |
| **Contractor:** | J&H Drilling (Antonio=driller) | **HSA/Borehole Diameter:** | 8" |
| **Rig Type:** | CME 85 | **Sampling Method:** | CA Modified, 2" OD |
| **Drilling Method:** | Hollow Stem Auger (HSA) | **Backfill:** | EnviroPlug (bentonite) grout |
| **Groundwater Encountered (Y/N):** | No | **Logged by:** | C. Shestag |

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = soil<br>Hand-augered to 5' bgs |
| 09:55 | 0.0 | 3/11/14 | 4.5'-6' | 14"/18" | JHA-B-2-5' | 5 | AF | **FILL (AF:tank backfill):** Well-Graded Sand (SW), dark yellowish brown (10YR 5/4), moist, fine- to coarse-grained sand, trace pea gravel, loose, no HC stain, no HC odor |
| | | | | | | 7 | | Grades to native |
| 10:05 | 1.0 | 17/13/30 | 9.5'-11' | 16"/18" | JHA-B-2-10' | 10 | SP | **POORLY-GRADED SAND (SP)**, light olive brown (2.5Y 5/6), slightly moist to dry, medium dense to dense, fine-grained sand, rounded grains, no HC stain, no HC odor |
| 10:15 | 0.0 | 19/23/31 | 14.5'-16' | 17"/18" | JHA-B-2-15' | 15 | SW/GW | **GRAVELLY SAND/SANDY GRAVEL (SW/GW)**, dark yellowish-brown (10YR 5/4), coarse sand & fine- to medium-grained gravel, dry, no HC stain, no HC odor, medium dense to dense, rounded to sub-rounded grains |
| 10:25 | 1.0 | 16/19/22 | 19.5'-21' | 18"/18" | JHA-B-2-20' | 20 | SM/SP | **SILTY FINE SAND/FINE SAND WITH SILT (SM/SP)**, dark yellow-brown (10YR 4/4), very slightly moist, medium dense to dense, micaceous, no HC stain, no HC odor |
| 10:35 | 0.0 | 13/17/23 | 24.5'-26' | 15"/18" | JHA-B-2-25' | 25 | SW | **WELL-GRADED SAND (SW)**, yellowish-brown (10YR 5/4), dry, fine- and medium sand, medium dense, no HC stain, no HC odor |
| | | | | | | 26 | | Total Depth = 26 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout |
| | | | | | | 27 | | |
| | | | | | | 28 | | |
| | | | | | | 29 | | |
| | | | | | | 30 | | |

JHA ENVIRONMENTAL

# Boring ID#: JHA-B-3 (SE side of "gas" UST)

Sheet: 1 of 1

**Project:** Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A

**Drill Date:** 4/1/2016 **Time:** 10:55 - 11:55am

**Contractor:** J&H Drilling (Antonio=driller) **HSA/Borehole Diameter:** 8"

**Rig Type:** CME 85 **Sampling Method:** CA Modified, 2" OD

**Drilling Method:** Hollow Stem Auger (HSA) **Backfill:** EnviroPlug (bentonite) grout

**Groundwater Encountered (Y/N):** No **Logged by:** C. Shestag

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = soil<br>Hand-augered to 5' bgs |
| 11:05 | 0.0 | 7/7/13 | 4.5'-6' | 10"/18" | JHA-B-3-5' | 5 | AF | **FILL (AF:tank backfill):** Well-Graded Sand (SW), dark yellowish brown (10YR 4/4), slightly moist, fine- to coarse-grained sand, trace pea gravel, loose, no HC stain, no HC odor |
| | | | | | | 7 | | Grades to native |
| 11:15 | 0.0 | 11/15/21 | 9.5'-11' | 16"/18" | JHA-B-3-10' | 10 | SP | **POORLY-GRADED SAND (SP)**, dark yellowish brown (10YR 4/4), very slightly moist, medium dense, fine-grained sand, rounded grains, no HC stain, no HC odor |
| 11:25 | 0.0 | 13/17/19 | 14.5'-16' | 15"/18" | JHA-B-3-15' | 15 | SW/GW | **GRAVELLY SAND/SANDY GRAVEL (SW/GW)**, yellowish-brown to dark yellowish-brown (10YR 4/4 to 10YR 5/4), coarse sand & fine- to medium gravel, dry, no HC stain, no HC odor, medium dense to dense |
| 11:35 | 1.0 | 18/21/28 | 19.5'-21' | 18"/18" | JHA-B-3-20' | 20 | SM/SP | **SILTY FINE SAND/FINE SAND WITH SILT (SM/SP)**, light olive yellow (2.5Y 5/4), very slightly moist to dry, medium dense to dense, trace clay, trace iron oxide ($FeO_2$) and manganese oxide ($MnO_2$) stain, no HC stain, no HC odor |
| 11:45 | 0.0 | 17/23/27 | 24.5'-26' | 16"/18" | JHA-B-3-25' | 25 | SW | **WELL-GRADED SAND (SW)**, yellowish-brown (10YR 5/4), dry, fine- and medium sand, trace coarse sand, medium dense, no HC stain, no HC odor |
| | | | | | | 26 | | Total Depth = 26 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout. |

JHA ENVIRONMENTAL

# Boring ID#: JHA-B-4 (NE side of "gas" UST)

Sheet: 1 of 1

**Project:** Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A

**Drill Date:** 4/1/2016 **Time:** 11:55 - 13:10

**Contractor:** J&H Drilling (Antonio=driller) **HSA/Borehole Diameter:** 8"

**Rig Type:** CME 85 **Sampling Method:** CA Modified, 2" OD

**Drilling Method:** Hollow Stem Auger (HSA) **Backfill:** EnviroPlug (bentonite) grout

**Groundwater Encountered (Y/N):** No **Logged by:** C. Shestag

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = soil<br>Hand-augered to 5' bgs |
| 12:10 | 0.0 | 12/15/19 | 4.5'-6' | 13"/18" | JHA-B-4-5' | 5 | AF | **FILL (AF:tank backfill):** Well-Graded Sand (SW), dark yellowish brown (10YR 4/4), slightly moist, fine- to coarse-grained sand, loose to medium dense, no HC stain, no HC odor |
| | | | | | | 7 | | Grades to native |
| 12:20 | 1.0 | 16/19/23 | 9.5'-11' | 16"/18" | JHA-B-4-10' | 10 | SP | **POORLY-GRADED SAND (SP)**, light olive brown (2.5Y 5/4), very slightly moist to dry, medium dense, fine-grained sand, rounded grains, no HC stain, no HC odor |
| 12:30 | 0.0 | 14/20/24 | 14.5'-16' | 14"/18" | JHA-B-4-15' | 15 | SW/GW | **GRAVELLY SAND/SANDY GRAVEL (SW/GW)**, dark yellowish-brown (10YR 4/6), coarse sand & fine- to medium gravel, dry, no HC stain, no HC odor, medium dense |
| 12:40 | 1.0 | 13/16/21 | 19.5'-21' | 18"/18" | JHA-B-4-20' | 20 | SM/SP | **SILTY FINE SAND/FINE SAND WITH SILT (SM/SP)**, light olive brown (2.5Y 5/6), slightly moist, medium dense, micaceous, no HC stain, no HC odor |
| 12:50 | 0.0 | 16/19/22 | 24.5'-26' | 15"/18" | JHA-B-4-25' | 25 | SW | **WELL-GRADED SAND (SW)**, yellowish-brown (10YR 5/4), dry, fine- and medium sand, trace coarse sand and gravel, medium dense, no HC stain, no HC odor |
| | | | | | | 30 | | Total Depth = 26 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout. |

JHA ENVIRONMENTAL

# Boring ID#: JHA-B-5 (south end of clarifier)

Sheet: 1 of 1

**Project:** Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A

**Drill Date:** 4/1/2016 **Time:** 14:15 - 14:55

**Contractor:** J&H Drilling (Antonio=driller) **HSA/Borehole Diameter:** 8"

**Rig Type:** CME 85 **Sampling Method:** CA Modified, 2" OD

**Drilling Method:** Hollow Stem Auger (HSA) **Backfill:** EnviroPlug (bentonite) grout

**Groundwater Encountered (Y/N):** No **Logged by:** C. Shestag

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = concrete<br>Hand-augered to 5' bgs |
| | | | | | | 1 | | |
| | | | | | | 2 | AF | **FILL (AF):** pavement chunks (concrete & asphalt) mixed with sandy soil, rebar, & other debris, moist, no HC stain, no HC odor |
| | | | | | | 3 | | |
| | | | | | | 4 | | |
| 14:30 | 0.0 | 13/16/19 | 4.5'-6' | 16"/18" | JHA-B-5-5' | 5 | | Grades to native<br>**SILTY FINE SAND (SM)**, brownish-yellow to yellowish-brown (10 YR 6/6 to 5/6), very slightly moist, loose to medium dense, no HC stain, no HC odor, micaceous, trace iron oxide stain |
| | | | | | | 6 | SM | |
| | | | | | | 7 | | |
| | | | | | | 8 | | |
| | | | | | | 9 | | |
| 14:40 | 1.0 | 10/13/17 | 9.5'-11' | 16"/18" | JHA-B-5-10' | 10 | SP | **POORLY-GRADED SAND (SP)**, light olive brown (2.5Y 5/6), dry, loose to medium dense, fine-grained sand, trace medium sand, no HC stain, no HC odor |
| | | | | | | 11 | | |
| | | | | | | 12 | | Total Depth = 11 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout |
| | | | | | | 13 | | |
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JHA ENVIRONMENTAL

# Boring ID#: JHA-B-6 (north end of clarifier)

Sheet: 1 of 1

| | | | |
|---|---|---|---|
| **Project:** | Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A | | |
| **Drill Date:** | 4/1/2016 | **Time:** | 15:05 - 15:40 |
| **Contractor:** | J&H Drilling (Antonio=driller) | **HSA/Borehole Diameter:** | 8" |
| **Rig Type:** | CME 85 | **Sampling Method:** | CA Modified, 2" OD |
| **Drilling Method:** | Hollow Stem Auger (HSA) | **Backfill:** | EnviroPlug (bentonite) grout |
| **Groundwater Encountered (Y/N):** | No | **Logged by:** | C. Shestag |

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = concrete<br>Hand-augered to 5' bgs |
| | | | | | | 1 | | |
| | | | | | | 2 | AF | **FILL (AF):** pavement chunks (concrete & asphalt) mixed with sandy soil, rebar, & other debris, moist, no HC stain, no HC odor |
| | | | | | | 3 | | |
| | | | | | | 4 | | |
| 15:15 | 0.0 | 6/9/12 | 4.5'-6' | 14"/18" | JHA-B-6-5' | 5 | | Grades to native |
| | | | | | | 6 | SM | **SILTY FINE SAND (SM)**, dark yellowish-brown (10 YR 4/4 to 4/6), dry to very slightly moist, loose to very loose, no HC stain, no HC odor |
| | | | | | | 7 | | |
| | | | | | | 8 | | Coarsens through Fine-Grained Sand (SP) to: |
| | | | | | | 9 | | |
| 15:25 | 1.0 | 9/13/16 | 9.5'-11' | 15"/18" | JHA-B-6-10' | 10 | SW | **WELL-GRADED SAND (SP)**, dark yellowish-brown (10 YR 4/4 to 4/6), dry, loose to very loose, fine- through coarse-grained sand, some iron oxide staining, no HC stain, no HC odor |
| | | | | | | 11 | | |
| | | | | | | 12 | | Total Depth = 11 ft. Boring sealed & backfilled with EnviroPlug (bentonite) grout. |
| | | | | | | 13 | | |
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JHA ENVIRONMENTAL

# Boring ID#: JHA-B-7 (seepage pit)

Sheet: 1 of 1

**Project:** Santa Clarita Old Town Newhall (OTN) Parking Structure; #E751A

**Drill Date:** 4/1/2016 **Time:** 15:50 - 15:58

**Contractor:** J&H Drilling (Antonio=driller) **HSA/Borehole Diameter:** 8"

**Rig Type:** CME 85 **Sampling Method:** CA Modified, 2" OD

**Drilling Method:** used wireline sampler only **Backfill:** EnviroPlug (bentonite) grout

**Groundwater Encountered (Y/N):** No **Logged by:** C. Shestag

| Sample Time | PID (ppmV) | Blow Count | Sample Interval (feet) | Sample Recovery | Sample Identification | Depth (feet) | USCS | Lithology Description |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | Surface = concrete |
| | | | | | | 1 | | |
| | | | | | | 2 | | Not drilled as drilling was not needed; only used the rig's downhole wireline sampling system to collect soil samples at base of brick-sided empty, circular seepage pit. Sampler was lowered into & through the pit via the pit's 3.75-inch-diameter surface access port. |
| | | | | | | 3 | | |
| | | | | | | 4 | | |
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| | | | | | | 22 | | |
| | | | | | | 23 | SW | **WELL-GRADED SAND (SW)**, both samples fine- & medium sand with trace coarse sand. |
| 15:50 | 0.0 | 9 | 23-23.5' | 6"/6" | JHA-B-7-23.5' | | | At 23.5', grey-stained (olive-grey; 5Y 5/2); slightly moist, slight sewer odor, no HC stain or odor. |
| 15:58 | 0.0 | 12 | 23.5'-24' | 6"/6" | JHA-B-7-24' | 24 | | At 24', light olive-brown (2.5Y 5/4); slightly moist, no staining, no HC or sewer odor. |
| | | | | | | 25 | | Total Depth = 24 ft. |
| | | | | | | 26 | | |
| | | | | | | 27 | | |
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| | | | | | | 29 | | |
| | | | | | | 30 | | |

**RECEIPT** DATE 04/06/16 No. 407727

RECEIVED FROM J.H.A Demolition $250.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt mix

| | |
|---|---|
| ACCOUNT | |
| PAYMENT | |
| BAL. DUE | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407713

RECEIVED FROM J.H.A Demolition $250.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt mix

| | |
|---|---|
| ACCOUNT | |
| PAYMENT | |
| BAL. DUE | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407719

RECEIVED FROM J.H.A Demolition $250.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt mix

| | |
|---|---|
| ACCOUNT | |
| PAYMENT | |
| BAL. DUE | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407720

RECEIVED FROM J-HA Demenadiku $ 250 00

N. V. Const Co DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt m/2

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407724

RECEIVED FROM J-HA Demenadiku $ 250.00

North Valley Const Co DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt m/2

| ACCOUNT | ✓ | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407729

RECEIVED FROM J-HA Demenadiku $ 250.00

North Valley Const Co DOLLARS

○ FOR RENT
○ FOR Concrete + Asphalt + wire m/2

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407728

RECEIVED FROM J-HA Demenadiku $ 250.00

North Valley Const Co DOLLARS

○ FOR RENT
○ FOR Concrete + wire + Asphalt m/2

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

**RECEIPT** DATE _____ No. 407710

RECEIVED FROM J. H. A - REMEDIATION $250.00

NORTH Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete wire + ASPHALT mix

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

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**RECEIPT** DATE 04-06-2016 No. 507800

RECEIVED FROM J.H.A REMEDIATION $250.00

N.V CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE and ASPHALT

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY Jesse

A-2701
T-46800/46802

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**RECEIPT** DATE 04/06/16 No. 407712

RECEIVED FROM J. H. A DEMEDIATION $250.00

NORTH Valley Const CO DOLLARS

○ FOR RENT
○ FOR Concrete + wire + ASPHALT mix

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

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**RECEIPT** DATE 04/06/16 No. 407717

RECEIVED FROM J H A DEMEDIATION $250.00

N. V. Const CO DOLLARS

○ FOR RENT
○ FOR Concrete + Wire + ASPHALT mix

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407726

RECEIVED FROM J H A DEMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| ACCOUNT | ✓ | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

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**RECEIPT** DATE 04/06/16 No. 407722

RECEIVED FROM J.H.A DEMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| ACCOUNT | | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

---

**RECEIPT** DATE 04/06/16 No. 407725

RECEIVED FROM J.H.A DEMEDIATION $250.00

NORTH VALLEY CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| ACCOUNT | X | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

---

**RECEIPT** DATE 04/06/16 No. 407721

RECEIVED FROM J.H.A DEMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| ACCOUNT | ✓ | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407714

RECEIVED FROM J.H.A. DEMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| | |
|---|---|
| ACCOUNT | |
| PAYMENT | |
| BAL. DUE | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407711

RECEIVED FROM J.H.A. REMEDIATION $200.00

NORTH VALLEY CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE

| | |
|---|---|
| ACCOUNT | X |
| PAYMENT | |
| BAL. DUE | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

**RECEIPT** DATE 04/06/16 No. 407715

RECEIVED FROM J.H.A. DEMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONCRETE + WIRE + ASPHALT MIX

| | |
|---|---|
| ACCOUNT | |
| PAYMENT | |
| BAL. DUE | |

☒ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM TO

BY

A-2701
T-46800/46802

# NON-NEGOTIABLE BILL-OF-LADING AND TRANSPORTATION AGREEMENT

BILL NO. N - 048384

DATE 4-6-16

PRINCIPAL CARRIER S M SALES

ADDRESS

CITY/STATE/ZIP PH.

UNDERLYING CARRIER (IF ANY) S. A. TRUCKING

ADDRESS PH.

JOB #

BROKER # S.M. Sales

TRUCK # 9026

TRAILER #

CA # 31213

SHIPPER J. H. A Remediation

ADDRESS 8A ROOD AVE 9 ST

CITY/STATE/ZIP Santa Clarita

POINT OF ORIGIN

RECEIVER NORT Valley Copst

ADDRESS 23802 PINE STREET

CITY/STATE/ZIP

POINT OF DESTINATION

EQUIPMENT TYPE

- ❑ 10-WHEELER
- ❑ SUPER-10
- ❑ STRONG ARM
- ❑ SUPER TAG
- ❑ TRANSFER
- ❑ DBL BOTTOMS
- ❑ SEMI-BOTTOM
- ❑ END DUMP
- ❑ SIDE DUMP
- ❑ TRUCK & PUP
- ❑ WATER TRUCK
- ❑ FLAT BED
- ❑ MIXER
- ❑ OTHER

❑ HOURLY ❑ TONNAGE ❑ PER LOAD

RATE @ $

| | TAG NO. | WEIGHT | COMMODITY | LOADING ARRIVE | LOADING DEPART | UNLOADING ARRIVE | UNLOADING DEPART | STANDBY TIME | BREAKDOWN OR REASON FOR DELAY |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 407710 | ~~[illegible]~~ | DEMO | | | | | | |
| 2 | 407713 | ~~[illegible]~~ | DEMO | | | | | | |
| 3 | 407719 | ~~[illegible]~~ | DEMO | | | | | | |
| 4 | 407720 | ~~[illegible]~~ | DEMO | | | | | | |
| 5 | 407724 | ~~[illegible]~~ | DEMO | | | | | | |
| 6 | 407727 | ~~[illegible]~~ | DEMO | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | 4HR | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |

MUST BE TURNED IN WITHIN 3 DAYS TO ENSURE PAYMENT

THANK YOU

| REPORTING TIME | ENDING TIME | TOTAL TIME | DEDUCTIBLE TIME | NET TIME | TOTAL TONS | ACCESSORIAL OTHER |
|---|---|---|---|---|---|---|
| 7:30 | 11:30 | 4HR | | | | |
| START DRIVING TIME LAST TRIP | ARRIVAL TIME AT DUMP LAST TRIP | END LOADING LAST TRIP | RUNNING TIME LAST TRIP | | | |

SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE

TOTAL CHARGES

JOB

DRIVER SIGNATURE

SHIPPER/RECEIVER (AGENT OR DEBITOR) SIGNATURE

# NON-NEGOTIABLE BILL-OF-LADING AND TRANSPORTATION AGREEMENT

BILL NO. A- 890130

DATE 04-06-16

PRINCIPAL CARRIER: SM SALES

ADDRESS:

CITY/STATE/ZIP: PH.

UNDERLYING CARRIER (IF ANY): HUTCH'S TRUCKING

ADDRESS: PH.

JOB #:

BROKER #: SM SALES

TRUCK #: 09E1

TRAILER #: Ø

CA #: 142460

SHIPPER: JHA REMEDIATION

ADDRESS:

CITY/STATE/ZIP:

POINT OF ORIGIN: RAILROAD & 9TH ST. NEWHALL

RECEIVER: VALENCIA DUMP

ADDRESS:

CITY/STATE/ZIP:

POINT OF DESTINATION: 23879 PINE ST. NEWHALL

EQUIPMENT TYPE

- ☐ 10-WHEELER
- ☑ SUPER-10
- ☐ STRONG ARM
- ☐ SUPER TAG
- ☐ TRANSFER
- ☐ DBL BOTTOMS
- ☐ SEMI-BOTTOM
- ☐ END DUMP
- ☐ SIDE DUMP
- ☐ TRUCK & PUP
- ☐ WATER TRUCK
- ☐ FLAT BED
- ☐ MIXER
- ☐ OTHER

☑ HOURLY ☐ TONNAGE ☐ PER LOAD

RATE @ $

| | TAG NO. | WEIGHT | COMMODITY | LOADING ARRIVE | LOADING DEPART | UNLOADING ARRIVE | UNLOADING DEPART | STANDBY TIME | BREAKDOWN OR REASON FOR DELAY |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | DEMO | 8:30 | | | TIK # 507800 | | |
| 2 | | | DEMO | | | | TIK # 407712 | | |
| 3 | | | DEMO | | | | TIK # 407717 | | |
| 4 | | | DEMO | | | | TIK # 407722 | | |
| 5 | | | DEMO | | | | TIK # 407726 | | |
| 6 | | | DEMO | | | | TIK # | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
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| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |

| REPORTING TIME | ENDING TIME | TOTAL TIME | DEDUCTIBLE TIME | NET TIME | TOTAL TONS | ACCESSORIAL OTHER |
|---|---|---|---|---|---|---|
| 8:30 | 2:30 | 6.0 | Ø | | | |
| START DRIVING TIME LAST TRIP | ARRIVAL TIME AT DUMP LAST TRIP | END LOADING LAST TRIP | RUNNING TIME LAST TRIP | | | |

**SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE**

TOTAL CHARGES: 6.0

DRIVER SIGNATURE

X JHA JOB

SHIPPER/RECEIVER (AGENT OR DEBITOR) SIGNATURE

# NON-NEGOTIABLE BILL-OF-LADING AND TRANSPORTATION AGREEMENT

BILL NO. M- 085744

PRINCIPAL CARRIER: SM SALES

DATE: 04-06-16

ADDRESS:

CITY/STATE/ZIP: PH.

UNDERLYING CARRIER (IF ANY): H N T TRUCKING

ADDRESS: PH.

JOB #:

BROKER #: SMSALES

TRUCK #: 003

TRAILER #: 8892

CA #: 311435

**SHIPPER:** JHA Renediation

ADDRESS: Railroad AVE & 9 ST

CITY/STATE/ZIP: Santa Clarita

**POINT OF ORIGIN:**

**RECEIVER:**

ADDRESS:

CITY/STATE/ZIP:

**POINT OF DESTINATION:** Railroad AVE & 9ST

**EQUIPMENT TYPE**

- ❑ 10-WHEELER
- ❑ SUPER-10
- ❑ STRONG ARM
- ❑ SUPER TAG
- ❑ TRANSFER
- ❑ DBL BOTTOMS
- ❑ SEMI-BOTTOM
- ❑ END DUMP
- ❑ SIDE DUMP
- ❑ TRUCK & PUP
- ❑ WATER TRUCK
- ❑ FLAT BED
- ❑ MIXER
- ❑ OTHER

❑ HOURLY ❑ TONNAGE ❑ PER LOAD

RATE @ $

| | TAG NO. | WEIGHT | COMMODITY | LOADING ARRIVE | LOADING DEPART | UNLOADING ARRIVE | UNLOADING DEPART | STANDBY TIME | BREAKDOWN OR REASON FOR DELAY |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7715 | | | 8:00 | 8:05 | 8:20 | 8:39 | | |
| 2 | 7711 | | | 8:50 | 9:11 | 9:22 | 9:27 | | |
| 3 | 7714 | | | 9:30 | 9:41 | 9:50 | 9:55 | | |
| 4 | 7726 | | | 10:04 | 10:20 | 10:34 | 10:38 | | |
| 5 | 7725 | | | 10:50 | 10:54 | 11:02 | 11:38 | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |

MUST BE PAID WITHIN 30 DAYS TO ENSURE PAYMENT

THANK YOU

| REPORTING TIME | ENDING TIME | TOTAL TIME | DEDUCTIBLE TIME | NET TIME | TOTAL TONS | ACCESSORIAL OTHER |
|---|---|---|---|---|---|---|
| 8:00 | 2:00 | 6:00 | 0 | 6:00 | | |
| START DRIVING TIME LAST TRIP | ARRIVAL TIME AT DUMP LAST TRIP | END LOADING LAST TRIP | RUNNING TIME LAST TRIP | | | |

**SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE**

TOTAL CHARGES

H N T TRUCKING PETROS

DRIVER SIGNATURE

JOB

SHIPPER/RECEIVER (AGENT OR DEBITOR) SIGNATURE

**RECEIPT** DATE 04/14/16 No. 407750

RECEIVED FROM J H A Remediation $ 200.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete over size limit

| ACCOUNT | X | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [illegible]

A-2701
T-46800/46802

**RECEIPT** DATE 04/14/16 No. 207704

RECEIVED FROM J H A Remediation $ 300.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete + Asphalt + material

| ACCOUNT | X | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY GT #36

A-2701
T-46800/46802

**RECEIPT** DATE 04/14/16 No. 207710

RECEIVED FROM J H A Remediation $ 300.00

North Valley Const DOLLARS

○ FOR RENT
○ FOR Concrete Asphalt mix

| ACCOUNT | X | |
|---|---|---|
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY GT 36

A-2701
T-46800/46802

**RECEIPT** DATE 04/14/16 No. 207707

RECEIVED FROM JHA Remediation $ 308.00

North Valley Const Co DOLLARS

○ FOR RENT
○ FOR Concrete over size + disposal + metal mat

| | | |
|---|---|---|
| ACCOUNT | X | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY CT #36

A-2701 T-46600/46602

**RECEIPT** DATE 04-14-2016 No. 607739

RECEIVED FROM JHA REMEDIATIONS $ 270.00

N.V. CONST. DOLLARS

○ FOR RENT
○ FOR CONCRETE OVER-SIZE.

| | | |
|---|---|---|
| ACCOUNT | | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY CT #36

A-2701 T-46600/46602

**RECEIPT** DATE 04/12/16 No. 407730

RECEIVED FROM JHA Remediation $ 400.00

North Valley Const total $400.00 DOLLARS

○ FOR RENT
○ FOR Concrete over size + metal mat

| | | |
|---|---|---|
| ACCOUNT | X | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [illegible]

A-2701 T-46600/46602

**RECEIPT** DATE 04/12/16 No. 407726

RECEIVED FROM JHA REMEDIATION $250.00

NORTH VALLEY CONST DOLLARS

○ FOR RENT
○ FOR CONSTRUCT OVERSIZE + WIRE

| | | |
|---|---|---|
| ACCOUNT | X | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701
T-46800/46802

**RECEIPT** DATE 04/12/16 No. 407721

RECEIVED FROM JHA REMEDIATION $250.00

NORTH VALLEY CONST DOLLARS

○ FOR RENT
○ FOR CONSTRUCT OVERSIZE + WIRE

| | | |
|---|---|---|
| ACCOUNT | | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
○ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701
T-46800/46802

**RECEIPT** DATE 04/12/16 No. 407718

RECEIVED FROM JHA REMEDIATION $250.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONSTRUCT + WIRE + OVERSIZE

| | | |
|---|---|---|
| ACCOUNT | X | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
☒ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701
T-46800/46802

**RECEIPT** DATE 04/12/16 No. 407716

RECEIVED FROM J.H.A REMEDIATION $300.00

NORTH VALLEY CONST CO DOLLARS

○ FOR RENT
○ FOR CONSULT over size + wire mix + ASPHALT MIX

| | | |
|---|---|---|
| ACCOUNT | X | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
X CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701 T-46800/46802

**RECEIPT** DATE 04-12-2016 No. 607723

RECEIVED FROM J.H.A. REMEDIATION $300.

N.V. CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE and WIRE ASPHALT

| | | |
|---|---|---|
| ACCOUNT | | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
X CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701 T-46800/46802

**RECEIPT** DATE 04-12-2016 No. 607721

RECEIVED FROM J.H.A. REMEDIATION $170.

N.V. CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE

| | | |
|---|---|---|
| ACCOUNT | | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
X CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY [signature]

A-2701 T-46800/46802

RECEIPT DATE 04/12/16 No. 407724

RECEIVED FROM J H A REMEDIATION $250.00

NORTH VALLEY CONST DOLLARS

○ FOR RENT
○ FOR Complete 6 yd size twice

| | | |
|---|---|---|
| ACCOUNT | ✓ | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
✓ CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

RECEIPT DATE 04-12-2016 No. 607720

RECEIVED FROM J.H.A. REMEDIATION $170.00

N.V. CONST DOLLARS

○ FOR RENT
○ FOR CONCRETE

| | | |
|---|---|---|
| ACCOUNT | | |
| PAYMENT | | |
| BAL. DUE | | |

○ CASH
X CHECK
○ MONEY ORDER
○ CREDIT CARD

FROM _____ TO _____

BY _____

A-2701
T-46800/46802

# Patriot Environmental Services

26000 Springbrook Ave. Unit #107, Saugus, CA 91350
Telephone: (661) 287-3737 (800) 624-9136
FAX: (661) 287-3998
EPA I.D. CAD 053 866 794
HAULER REG. #0335

JOB DATE: 4/22/16
JOB # 0002-16-00223
WORK ORDER # 86972
MANIFEST # NH 017525
INVOICE #

Service: JHA ENVIRONMENTAL
Address: N/W CORNER OF 9TH STREET AND RAILROAD AVE.
City: SANTA CLARITA CA Zip: 91321
Phone: Contact:
Billing Name: JHA ENVIRONMENTAL
Address: 2646 PALMA DR., SUITE 450
City: VENTURA CA Zip: 93003
Phone: (805)509-0377 ATTN: CAROL SHESTAG

## MATERIALS & EQUIPMENT

| | | |
|---|---|---|
| TRUCK # 123 | VACUUM | ROLL OFF |
| TRAILER # | PW | |
| DRUMS | ABSORBENT | LINERS |
| LABOR | MEN | HOURS |
| ADDITIONAL MATERIALS: | | |

EPA NUMBER:
TAX NUMBER:
PROPER SHIPPING NAME:
HAZARD CLASS:
I.D. NUMBER:
WASTE CODES: STATE: EPA:
ADDITIONAL DESCRIPTION:

24 HR. EMERGENCY #: 800-624-9136 ERG pg. #:
APPROVAL #: LDRN ☐
DESCRIPTION OF WORK: PICK UP 4 DRUMS OF WASTE, DELIVER TO LONG BEACH FOR LTR

ARRIVE JOB: 1335 LEAVE JOB: 1400
DISPOSAL SITE: AA SYDCOL, LLC
ADDRESS: 1925 S. FACTOR AVE. CITY: YUMA
AZ 85365 PHONE: 928-783-3676
EPA I.D.: AZR000501510
BILL TO PATRIOT ☒ BILL TO CUSTOMER ☐

DEL. DATE: P/U DATE:

| | | |
|---|---|---|
| R/O BOX RENTAL: | DAYS @ CHARGE: | |
| FIELD SERVICES | CHARGE: | |
| PICKUP or DELIVERY | CHARGE: | |
| ANALYSIS: ☐ | CHARGE: | |
| PROFILING FEE: ☐ | CHARGE: | |
| DEMURRAGE: ☐ | CHARGE: | |
| TRANSPORTATION: $320.00 | CHARGE: | |
| DISPOSAL: $300.00 | CHARGE: | |
| WASHOUT: | CHARGE: | |
| FUEL SURCHARGE: | | |
| ADDITIONAL SERVICES: | | |
| COMMENTS: | | |
| ARRIVE DISP. | LEAVE DISP. | |
| COD AMOUNT$ | | |
| JOB AMOUNT$ | | |

WARRANTIES: Customer expressly warrants that the information provided on the Uniform Hazardous Waste Manifest is complete and accurate.
INDEMNITY: Customer shall indemnify PATRIOT ENVIRONMENTAL SERVICES, INC. against all losses on account of claims of injury to persons or damage to property, including attorneys fees, which may result in any way due to Customer providing incomplete or inaccurate information regarding materials being transported and/or information provided on the Uniform Hazardous Waste Manifest. Said Customer shall further be responsible for all costs incurred by PATRIOT ENVIRONMENTAL SERVICES, INC. due to incomplete or inaccurate information provided which results in the disposal sites refusal to accept the waste for disposal. Customer assumes all liability for overweight fnes levied by the State.
ATTORNEY S FEES AND COSTS: If Customer fails to pay the total charges pursuant to the invoice or the additional terms set forth therein, and it becomes necessary to obtain the services of an attorney to collect the amount owed, then PATRIOT ENVIRONMENTAL SERVICES, INC. shall be entitled to attorneys fees and costs in collecting said amount owed. INTEREST ON O LIGATION: If Customer fails to make total payment within ffteen (15) days from the date of the invoice, then PATRIOT ENVIRONMENTAL SERVICES, INC. shall be entitled to interest rate of 1.5% per month on the amount owed until paid in full.

| WORK ORDERED BY: | P.O.#: | ORDER TAKEN BY: | CUSTOMER SIGNATURE: | DATE: |
|---|---|---|---|---|
| CAROL SHESTAG | | MARC RUFFNER | N/A | |

JOB CODE:

DRIVER: JOSE Cardona

MP 102 (R2-01)

WHITE - BILLING YELLOW - CUSTOMER PINK - OFFICE

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator ID Number | 2. Page 1 of 1 | 3. Emergency Response Phone (800)624-9136 | 4. Waste Tracking Number NH 017525 |
|---|---|---|---|---|

GENERATOR

5. Generator's Name and Mailing Address
CITY OF SANTA CLARITA
23920 VALENCIA BLVD.
SANTA CLARITA CA 91355
Generator's Phone: (661)255-4348 ATTN: DAN DUNCAN

Generator's Site Address (if different than mailing address)
OLD TOWN NEWHALL - VACANT LOT
N/W CORNER OF 9TH STREET & RAILROAD AVE.
SANTA CLARITA, CA. 91321

6. Transporter 1 Company Name: PATRIOT ENVIRONMENTAL SERVICES — U.S. EPA ID Number: CAD053866794

7. Transporter 2 Company Name: INDUSTRIAL WASTE UTILIZATION — U.S. EPA ID Number: CAD980585293

8. Designated Facility Name and Site Address — U.S. EPA ID Number: AZR000501510
AA SYDCOL. LLC
1925 S. FACTOR AVE.
YUMA AZ 85365
Facility's Phone: 928-783-3676

| | 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. | |
|---|---|---|---|---|---|---|
| 1. | NON-HAZARDOUS WASTE SOLID (SOIL FROM DRILLING) | 004 | DM | 2450 | P | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |

13. Special Handling Instructions and Additional Information
9.1) SOIL FROM DRILLING. PROFILE#

PATRIOT JOB# 0002-16-00223

PROPER DRUM HANDLING PPE REQUIRED. PROFILE# TBD... 12) UNIT WT/VOL. ESTIMATED

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: OBO JHA & CITY OF SANTA CLARITA. MARC RUFFNER. — Signature — Month 04 Day 22 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOSE CARDONA — Signature — Month 04 Day 22 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number NH 017525

5. Generator's Name and Mailing Address
CITY OF SANTA CLARITA
23920 VALENCIA BLVD.
SANTA CLARITA CA 91355
Generator's Phone: (661)255-4948 ATTN: DAN DUNCAN

Generator's Site Address (if different than mailing address)
OLD TOWN NEWHALL VACANT LOT
N/W CORNER OF 14TH STREET & RAILROAD AVE.
SANTA CLARITA, CA 91321

6. Transporter 1 Company Name
PATRIOT ENVIRONMENTAL SERVICES
U.S. EPA ID Number

7. Transporter 2 Company Name
INDUSTRIAL WASTE UTILIZATION
U.S. EPA ID Number

8. Designated Facility Name and Site Address
AA SYSTEM INC
1125 S. FACTOR AVE
YUMA AZ 85365
Facility's Phone: 928 783-3676
U.S. EPA ID Number

| 9. Waste Shipping Name and Description | 10. Containers No. | 10. Containers Type | 11. Total Quantity | 12. Unit Wt./Vol. |
|---|---|---|---|---|
| 1. NON HAZARDOUS WASTE SOLID (SOIL FROM DRILLING) | 006 | DM | 2750 | P |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

13. Special Handling Instructions and Additional Information
4.1) SOIL FROM DRILLING PROJECT
PATRIOT JOB# [illegible]
PROPER DRUM HANDLING IS REQUIRED PROFILE# [illegible] 1.7) UNIT WT/VOL ESTIMATED

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: CITY OF SANTA CLARITA MARK RUTNER
Signature
Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible]
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY