PHASE II INVESTIGATION REPORT
NORTH POSSE SITE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503
(APNs 7352-015-004, -005, AND -006)

Prepared for:

Torrance Black Beauty, LLC
Pier 1, Bay 1
San Francisco, California 94111

Prepared by:

SCS ENGINEERS
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

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This Phase II Investigation Report dated September 17, 2018 for the North Posse Site located at 3041 Del Amo Boulevard, Torrance, California, was prepared and reviewed by the following:

Ashley P. Hutchens, R.E.P.A.
Project Manager
SCS ENGINEERS

Kevin W. Green, PG
Project Director
SCS ENGINEERS



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DISCLAIMER

SCS Engineers (SCS) was retained by Prologis, Inc. on behalf of its affiliate Torrance Black Beauty, LLC, and specifically documents the investigation of soil and other media for the North Posse Site located at 3041 Del Amo Boulevard, Torrance, California. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented herein. No other party, known or unknown to SCS, is intended as a beneficiary of this work product, its content or information embedded therein. Third parties use this report at their own risk.

Changes in site conditions may occur due to variation in rainfall, temperature, water usage, or other factors. Additional information that was not available to the consultant at the time of this investigation or changes that may occur on the site or in the surrounding area may result in modification to the site that would impact the summary and recommendations presented herein. This report is not a legal opinion.

1 INTRODUCTION

SCS Engineers (SCS) was retained by Prologis, Inc., on behalf of Torrance Black Beauty, LLC (TBB), to conduct a Phase II Investigation consisting of soil, asbestos, and catalyst sampling at the North Posse Site located at 3041 Del Amo Boulevard, Torrance, California (the "Property"). Investigation activities were conducted in accordance with SCS's proposal dated June 15, 2018 (Proposal No. 01217339.00R1). A location map for the Property is presented as **Figure 1**.

2 GENERAL BACKGROUND

SCS prepared a Phase I Environmental Site Assessment (Phase I ESA; SCS, August 2018) of the North Posse Site located at 3041 Del Amo Boulevard, Torrance, California (the "Property"). This assessment was performed in conformance with 40 CFR 312, Standards for Conducting All Appropriate Inquiries, and in general conformance with ASTM E1527-13.

The Property consists of approximately 31 acres of predominately undeveloped land with horse stables located on approximately 1.5 acres in the southeastern portion of the Property. Historically the Property was an out-parcel ancillary to the Torrance Oil Refinery (3700 West 190th Street) ("Refinery").

The Phase I ESA site inspection identified land use for stables associated with the Torrance Mounted Posse in the southeastern portion of the Property and the remainder of the Property is currently vacant land. Other than oil pipelines observed on and adjacent to the Property, no oil production/processing activities were conducted on the Property. An area of lower elevation, identified as the "borrow pit" (where soil was historically borrowed for constructing berms at the Refinery), is located in the central portion of the Property. Small soil stockpiles were observed within the borrow pit, indicating that placement of soil (from unknown sources) occurred in the past. Debris, including bricks, concrete, piping (potentially asbestos containing), catalyst beads, petroleum coke, etc., are scattered across the surface of the northwestern portion of the Property.

Numerous groundwater monitoring wells associated with the Refinery are present on the Property, primarily around the perimeter. In addition, soil gas probes and evidence of soil borings from previous investigations were observed on the Property.

Property history information identified an area on the northwest portion of the Property that was used by the Refinery for the placement or disposal of Refinery wastes from at least 1947 until sometime between 1963 and 1970. By 1970, it appeared that excavation/grading activities had been conducted in the area known as the borrow pit. The eastern portion of the Property appeared to be used for agricultural purposes between at least 1952 through 1970. The Torrance Mounted Posse has used the southern portion of the Property for horse stables since at least 1989.

Aerial photographs of the area surrounding the Property revealed railroad tracks present to the northeast and oil exploration activities (wells and sumps) in the area surrounding the Property as early as 1928. Of particular note, a sump was present from at least 1928 through 1947, located immediately adjacent to the southwestern Property line. The Refinery was present adjacent to the northeast of the Property across the railroad tracks as early as 1928 and it appeared to expand through the years until it attained a size similar to current conditions by 1947.

The Refinery is the subject of Cleanup and Abatement Orders from the Los Angeles Regional Water Quality Control Board (RWQCB) for releases at or from the Refinery (CAO Numbers 88-43, 89-136, and 95-116). The Property, which is an out-parcel to the Refinery, appears to be within the area subject to those orders. Numerous previous investigations have confirmed that the disposal area on the Property contains total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), petroleum-related volatile organic compounds (VOCs), and metals at concentrations above typical regulatory screening levels. The disposal area occupies most of the northwestern portion of the Property. Fifteen years ago, the RCRA Facility Assessment (RFA) report for the Refinery, which was prepared by a contractor working for the U.S. Environmental Protection Agency (EPA), termed the disposal area "Solid Waste Management Unit 9" (SMWU 9). The EPA database for RCRA sites – "RCRAInfo" – contains information about the Refinery and shows all treatment, storage or disposal units to have a "Legal/Operating Status" as "Delisted – Protective Filer", with an Effective Date of January 26, 2007. Based on that, we understand that the Property is not subject to RCRA corrective action.

In addition to the disposal area, the perched and underlying Gage-Gardena aquifers have been impacted by fuel-related constituents and free hydrocarbon product, up to several feet in thickness. Consultants for Torrance Refinery Company LLC (TRC), the current operator of the Refinery, have indicated that the source of the perched aquifer contamination is the upgradient aboveground tank farm at the Refinery adjacent to the northeast of the Property. The downgradient (southwesterly) extent of impacts to the perched aquifer have not been defined. The source of the groundwater contamination in the Gage-Gardena aquifer may be to the west of the Property, which flows easterly (in the opposite direction from the flow in the perched aquifer).

A previous soil vapor investigation, conducted by Stantec, also identified elevated methane (up to 23 percent) and VOC concentrations, likely due to existing soil and/or groundwater contamination. Results from this investigation are provided in **Appendix A**, and the data provided has been integrated to SCS figures, discussed later in this report.

Other than anecdotal reports of a historical free hydrocarbon product (FHP) recovery system in the 1993 EEG report and documentation of waste removal in 1979, none of the available information indicates any existing or proposed remediation of soil or groundwater at the Property. In 1979, in response to the identification of piles of "colored" waste materials with "hazardous levels" of copper and zinc, the Department of Toxic Substance Control (DTSC) requested Mobil Oil Corporation to provide written documentation of the clean-up and disposal of these hazardous wastes and a program of sampling to document effective clean-up. Mobil provided a response (letter dated May 30, 1979) indicating 3,776.4 tons of waste were removed from the Site, including 255 loads disposed at the Palos Verdes Landfill and 99 loads disposed at the BKK Landfill.

Regulatory database information identified several known and suspected contaminated sites in the area surrounding the Property. Based on distance and direction from the Property, case status and/or groundwater flow direction, it is unlikely that the majority of these sites (with the exception of the Refinery) could impact the Property directly. Known releases from the Refinery have impacted the soil, soil vapor, and groundwater beneath the Property.

The Phase I ESA identified the following recognized environmental conditions (RECs):

- Refinery waste disposal on the northwestern portion of the Property;
- Regional groundwater contamination associated with the adjacent refinery and possibly other sources;
- Methane and petroleum related VOCs in soil vapor above regulatory screening levels;
- SVOC, metal, and petroleum-impacted soil;
- Historical agricultural land use;
- Undocumented fill soils within and near the borrow pit;
- Deed restrictions based on known contamination; and
- Numerous oil and hydrocarbon product lines run adjacent to and across the Property.

Based on these RECs – with the exception of the regional groundwater contamination that is currently subject to additional characterization studies and on-going monitoring by the refinery, and methane/ petroleum VOCs in vapor that have been previously characterized – further investigation was recommended to assess the potential for contamination to characterize known and suspected contaminants at the Property. The investigation described in this Phase II report was undertaken prior to TBB's acquisition of the Property. TBB plans to develop the Property into a warehouse/logistics center.

3 GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

PHYSIOGEOGRAPHIC SETTING

The Property is situated on the eastern margins of the El Segundo Sand Hills, in the southern portion of the Torrance Plain, within the Coastal Plain of Los Angeles County. The Property elevation varies from a high of about 106 feet above mean sea level (msl) along Del Amo Boulevard to a low of about 61 feet msl within the excavated borrow pit in the central portion of the Property. With the exception of the borrow pit, Property topography generally slopes to the northeast. The Santa Monica Bay is located approximately 3 miles west of the Property.

GEOLOGY AND SOILS

Surface sediments in the area have been mapped (CDWR, April 1988) as Upper Pleistocene Older Dune Sand. Reports for the Refinery (AECOM, 2016) indicate that the Older Dune Sand contains sand and sandy silt with gravel lenses, and is non-water bearing. The Older Dune Sand is underlain by the Upper Pleistocene Lakewood Formation, which consists of unconsolidated sand, silty sand, silt, and clay. The contact between the Older Dune Sand and the Lakewood Formation is not shown in cross-sections included with the AECOM reports, likely because of the similarity in lithology makes distinguishing the two difficult in borings. In the AECOM cross-sections, the Older Dune Sand is shown to be 50 to 70 feet in thickness at the Property.

HYDROGEOLOGY

The Property is situated in the southwestern portion of the West Coast Basin. Groundwater in this basin is designated for municipal and domestic supply, industrial process and service supply, and agricultural supply. Based on a review of investigation reports, the two shallowest hydrogeological units beneath the Property include a perched aquifer, which first occurs at

approximately 30 to 32 feet msl, and the Gage-Gardena Aquifer which first occurs at approximately -1 to -4 feet msl. The confining layer creating the perched aquifer is described as occurring approximately 70 feet below ground surface (bgs), which is equivalent to approximately 25 to 30 feet msl. Groundwater in the perched aquifer flows generally southwesterly, has been impacted by fuel releases from the adjacent aboveground tank farm at the Refinery northeaster of the Property, and contains almost 2 feet of light non-aqueous phase liquid (LNAPL). The Gage-Gardena aquifer flows generally easterly, has also been impacted by fuel releases, and contains 6+ feet of LNAPL. There are 18 existing groundwater wells on the Property: 14 wells in the perched aquifer scattered throughout the Property, and 4 wells in the Gage-Gardena aquifer all of which are along Del Amo Boulevard.

In May 2017, the RWQCB approved a Workplan by AECOM to characterize the nature and extent of LNAPL in both the perched and the Gage-Gardena aquifers. The proposed scope included 24 UVOST (UV optical screening tool) borings, confirmation soil borings (scope based on UVOST results), Simulprobe sampling at five locations (dissolved phase groundwater sampling up to 145 feet bgs), installation of nine groundwater wells (four paired shallow/deep wells and one single shallow well), forensic analysis of LNAPL samples, and LNAPL bail-down tests. The Workplan has been implemented and is on-going.

Although LNAPL removal was reportedly historically conducted at the Property, there are no groundwater remediation activities currently in progress or proposed at this time.

4 SITE INVESTIGATION

The Phase II Investigation conducted by SCS consisted of sampling as described below. A portion of the investigation was conducted on May 29, 30, and 31, 2018, in coordination with a geotechnical study completed by Southern California Geotechnical (SoCalGeo), with SCS personnel observing the field investigation and collecting separate or duplicate soil samples.

Additional investigation activities were conducted on June 18, 19, 20, and 25, 2018 by SCS and its subcontractors. As required by law, SCS pre-marked the proposed sampling points and notified Underground Service Alert (USA) (DigAlert Ticket No. A181631590-00A). Prior to sampling, SCS contracted with Goldak, Inc. (Goldak), of Sylmar, California to clear the proposed boring locations prior to initiating drilling activities to avoid any subsurface utilities.

SOIL SAMPLING

SoCalGeo Soil Investigation (May 29-31, 2018)

The scope of SoCalGeo's field investigation included six trenches designated T1 through T6, and 20 soil borings designated B1 through B20. SCS personnel observed the trenching and geotechnical sampling and, to document the potential for contamination in areas and borings of interest, collected soil samples for laboratory analysis. SoCalGeo's results, including boring logs, are presented in a draft report dated June 25, 2018 titled *Geotechnical Feasibility Study*. The geotechnical trench and boring locations are shown on **Figure 2**. SCS collected one to two

samples from each trench (a total of 9 samples) and 32 samples from soil borings (refer to **Tables 1 and 2**).

The SCS samples were transported to Chemtek Environmental Laboratories (Chemtek) of Santa Fe Springs, California for analysis. Samples were selectively analyzed – based on signs of contamination and to provide representative coverage – for VOCs by EPA Method 8260B, Title 22 metals by EPA Methods 6010B/7471A, hexavalent chromium using EPA Method 7199, soluble lead using both soluble threshold limit concentration (STLC) and toxicity characteristic leaching procedure (TCLP) methods, organochlorine pesticides (OCPs) by EPA Method 8081A, SVOCs by EPA Method 8270C, polychlorinated biphenyls (PCBs) by EPA Method 8082, and TPH by EPA Method 8015B.

Chemtek is a California Department of Health Services certified laboratory for the requested analyses. Samples were tracked from point of collection through the laboratory using proper chain-of-custody protocol. The results are summarized on **Tables 1 and 2**.

SCS Soil Borings (June 18-20 & 25, 2018)

Under the direction of SCS, H&P Mobile Geochemistry (H&P) conducted soil sampling using a truck-mounted direct-push drill rig. A total of 19 soil borings (SB1 through SB19), ranging from 15 to 45 feet bgs in depth, were drilled for the collection of soil samples. Highly variable topography at the Property resulted in variable sampling depths, with the target goal of reaching 50 feet msl. A total of six borings, generally within the refinery disposal area (SB1, SB2, SB4, SB5, SB10, and SB12), met refusal at depths ranging from 22 to 25 feet bgs. Soil boring locations are shown on **Figure 2**.

Soil samples were collected using two methods: solid spoon and dual tube. Solid spoon samples were collected using a 2-foot long, 1.5-inch diameter sampler. A pointed steel tip was fixed to the head of the solid-spoon sampler and driven to the desired sampling depth after which samples were collected by retracting the drive tip through the center of the sampler with an inner rod, and then hydraulically hammering the sampler an additional two feet. Soil samples were recovered in 2-foot long, 1-inch diameter pre-cleaned plastic polycarbonate sleeves that had been placed inside the sampler. At each sampling depth, an approximately 6- to 12-inch section was cut from the sample sleeve and preserved for laboratory analysis, as described below.

Dual tube samples were collected using the same drill rig and a 5-foot long, 2.25-inch diameter sampler. The soil samples were recovered in a 5-foot, 2-inch diameter pre-cleaned plastic polycarbonate sleeve that was placed inside the drill rods and hydraulically hammered, to the desired depth. At each sampling depth, an approximately 6- to 12-inch section was cut from the sample sleeve and preserved for laboratory analysis, as described below.

Soil samples for VOC analysis were prepared in the field using EPA Method 5035, which includes the collection of three 5-gram aliquots of soil from each soil sample using a plunger/sub-sampler provided by the laboratory. The three aliquots of soil were immediately placed in 40 milliliter VOA (volatile organic analysis) vials as follows – two aliquots in VOAs with a sodium bisulfate preservative and one in a methanol preservative. The remaining soil in

the sleeve was examined for lithology as discussed below. The ends of the sample tubes were covered with Teflon squares, sealed with plastic end caps, and secured with non-volatile tape.

A portion of each sample sleeve was observed for soil classification and to screen samples for indications of potential contamination, such as discoloration and odor. Signs of contamination were noted in the borings and were more prevalent from borings located in the former refinery dump area. Boring logs recording the lithology and other observation are provided in **Appendix A**. After soil sample collection, the borings were backfilled with bentonite that was hydrated throughout. The surface of each boring was covered with native soil to match the surrounding surface cover.

The samples were transported to Chemtek Environmental Laboratories (Chemtek) of Santa Fe Springs, California for the same set of analyses described above. Samples were tracked from point of collection through the laboratory using proper chain-of-custody protocol. The results are summarized on **Tables 1 and 2**.

SCS Discrete Surface Soil Samples (June 18, 2018)

On June 18, 2018, discrete surface samples were collected by SCS from the west and northwest portion of the Property. A total of sixteen discrete surface samples (designated "Surface 1" through "Surface 16") were collected. Surface sample locations are shown on **Figure 2**. Sample locations were screened prior to sample collection using an X-Ray fluorescence (XRF). At each sample location a hand trowel was used to sample the top layer of soil, approximately 2 to 3 inches thick. Prior to sampling at each location, the hand trowel was decontaminated with deionized water and dried with a clean paper towels. Soil samples were placed in 4 ounce glass jars using the hand trowel.

All sample containers were labeled (with solvent-free adhesive) noting the date of collection, sample number, and project number. Immediately following labeling, sample containers were placed in a chilled ice chest. All of these discrete surface samples were analyzed for Title 22 metals by EPA Methods 6010B/7471A, and OCPs by EPA Method 8081A. The samples were transported to Chemtek and the results are summarized on **Table 2.** In addition, the comparison of the laboratory results and the XRF field readings (**Table 7**) shows good correlation of lead results.

SCS Surface Composite Soil Samples (June 19, 2018)

On June 19, 2018, composite surface samples were collected from undocumented fill observed within and adjacent to the borrow pit. A total of eleven composite surface samples (Surface Comp 1 through Surface Comp 11) were collected. Composite sample locations are shown on **Figure 9**. Each composite sample was composed of approximately 6 to 8 subsamples, each of which constituted approximately 4 ounces of soil collected from the top layer of soil, approximately 2 to 3 inches thick. The subsamples were placed into a new, clean Ziploc bag using a hand trowel. The soil was thoroughly mixed within the Ziploc bag and transferred into a pre-cleaned 4 ounce glass jar. Prior to each composite sample location, the hand trowel was brushed off to remove any soil particles, decontaminated with deionized water, and dried with a clean paper towels.

All sample containers were labeled (with solvent-free adhesive) noting the date of collection, sample number, and project number. Immediately following labeling, samples were placed in a chilled ice chest. These composite surface samples were analyzed by Chemtek for Title 22 metals by EPA Methods 6010B/7471A and OCPs by EPA Method 8081A. The analytical results are summarized on **Table 2.**

ASBESTOS SAMPLING

During the SoCalGeo investigation, SCS observed suspect asbestos-containing materials (ACMs) in trenches and on the ground surface in the refinery disposal area. A total of seven samples of these materials were collected on May 29, 2018 and were placed in plastic Ziploc bags, labeled, and transported under chain-of-custody to LA Testing, a NVLAP and AIHA accredited laboratory. The samples were analyzed using Polarized Light Microscopy (PLM) and Dispersion Staining in accordance with the Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos in Bulk Samples (40 CFR 763, Subpart F, Appendix A). Asbestos analysis results are summarized on **Table 3.**

Additionally, eight soil samples in the Refinery disposal area were collected for asbestos analysis on June 28, 2018. Six of these samples (Surface 3, Surface 6, Surface 11 through 13, and Surface 16) were collected at the ground surface and two samples were collected at depths ranging from 5 to 10 feet bgs (SB4 and SB6). Soil samples were placed in plastic Ziploc bags, labeled, and transported under chain-of-custody to EMSL Analytical Inc (EMSL), a NVLAP and AIHA accredited laboratory for analysis of asbestos content using ASTM D7521. The analytical results are summarized on **Table 4.**

CATALYST SAMPLING

Ceramic catalyst pellets were observed on the surface of the Property and within some of the borings. The catalyst pellets were primarily observed on the northwestern portion of the Property, in the refinery waste disposal area. Three catalyst pellet samples were collected. Sample “Catalyst-1” was collect from loose pellets on the ground surface that were clean and white in appearance. Catalyst-2 was collected from the soil samples during drilling and was brown in appearance. Catalyst-3 was collected from an area of petroleum coke disposal on the surface, was black in color and bonded together.

Catalyst samples were placed in 4 ounce glass jars. All sample containers were labeled (with solvent-free adhesive) noting the date of collection, sample number, and project number. Immediately following labeling, samples were placed in a chilled ice chest. These catalyst samples were analyzed for VOCs by EPA Method 8260B, Title 22 metals by EPA Methods 6010B/7471A, SVOCs by EPA Method 8270C, and TPH by EPA Method 8015B, at American Environmental Testing Laboratory (AETL) located in Burbank, California. AETL is a California Department of Health Services certified laboratory for the requested analyses. Samples were tracked from point of collection through the laboratory using proper chain-of-custody protocol. The analytical results are summarized on **Tables 5 and 6.**

5 ANALYTICAL RESULTS

Analytical results are summarized in **Tables 1 through 6.** A comparison of the laboratory results and the XRF field readings is provided in **Table 7**. Data provided by Stantec, that is discussed below and included on the figures, is included as **Appendix F.**

The supporting laboratory reports, including chain-of-custody documentation and quality assurance/quality control (QA/QC) data, are provided as follows:

- **Appendix B** – Chemtek (soil samples)
- **Appendix C –** AETL (catalyst samples)
- **Appendix D –** LA Testing (ACMs)
- **Appendix E** – EMSL (asbestos analysis of soils)

SOIL SAMPLES

The results for subsurface, and discrete and composite soil samples are discussed in the following sections.

Subsurface Soil Samples

As shown in **Table 1**, a total of 94 samples were analyzed for TPH carbon-chain range. TPH as gasoline and light hydrocarbons (TPH-g [carbon-chain range C_4-C_{12}]) was detected in 27 soil samples, at concentrations ranging from 0.22 to 4,620 milligrams per kilogram (mg/kg). TPH as diesel (TPH-d [carbon-chain range C_{13}-C_{22}]) was detected in 20 soil samples, at concentrations ranging from 136 to 40,800 mg/kg. Heavy oil-range TPH (TPH-o [carbon-chain range C_{23}-C_{40}]) was detected in 21 soil samples at concentrations ranging from 46.1 to 10,700 mg/kg.

Analytical results for VOCs are summarized in **Table 1.** A total of 18 VOCs were detected as follows: benzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, ethylbenzene, isopropylbenzene, 4-isopropyltouluene, naphthalene, n-propylbenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, toluene, tert-butyl alcohol, vinyl chloride, xylenes, 2-butanone, and methyl tert-butyl ether. With the exception of benzene in SB9-10', SB9-15'; naphthalene in T1-9, S9-10', SB9-15', SB9-30', SB9-40'; and xylenes in SB9-10' and SB9-15', all other VOCs were detected at concentrations below DTSC-recommended screening levels (SLs) for commercial/industrial sites (further discussed below).

Analytical results for SVOCs are also summarized in **Table 1.** A total of 20 SVOCs were detected as follows: naphthalene, 2-methylynapthalene, 2-methylphenol(O-cresol), 2,4-dimethylphenol, carbazole, phenanthrene, anthracene, fluoranthene, fluorine, pyrene, bis(2-ethylhexyl) phthalate, benzo(a)anthracene, benzoic acid, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-C,D)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene. With the exception of naphthalene in T1-9', S9-10'; benzo(a)anthracene in B8-1'; benzo(a)pyrene in T1-9', B7-30', SB3-5', and SB9-10'; dibenz(a,h)anthracene in T1-9' and B8-1'; and xylenes in SB9-10' and SB9-15', all other SVOCs were detected at concentrations below DTSC-recommended SLs for commercial/industrial sites (further discussed below).

Thirteen samples were analyzed for PCBs. One sample (SB2-10) had a detection of PCB-1260 at a concentration of 651 micrograms per kilogram [µg/kg]. All other samples were non-detect for PCBs. PCBs results are summarized on **Table 1.**

Analytical results for metals in soil samples are summarized in **Table 2**. The metals detected were arsenic, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, vanadium, and zinc. With the exception of arsenic in samples T1-19.5', T4-14.5, SB5-10', SB6-5', SB7-5', SB7-20', SB8-35', SB9-15', SB14-5', and lead in samples T1-9', T3-0.5', T6-0.5', B8-1', SB2-10', SB3-5', SB5-10', SB6-5', SB6-10', SB7-5', SB8-5', and SB9-15', all other metals were detected at, or below, concentrations typically found in native California soils.

To further characterize lead levels in soil, based on elevated concentrations and to provide representative results throughout the Property, select samples were also analyzed for soluble lead using the California Waste Extraction Test for comparison to the California Title 22 soluble threshold limit concentration (STLC), and using the toxicity characteristic leach procedure (TCLP) for comparison to the federal TCLP limit. A total of 13 samples contained soluble lead concentrations above the STLC limit of 5 milligrams per liter (mg/L), ranging from 5.87 to 37.8 mg/L. None of the samples from this investigation exceeded the TCLP limit of 5 mg/L.

Eleven samples were analyzed for hexavalent chromium; eight samples had detections ranging from a trace concentration ("J" flagged) of 0.151 mg/kg to 3.54 mg/kg **(Table 2).** All hexavalent chromium concentrations were below DTSC-recommended SLs for commercial/industrial sites (further discussed below).

A summary of the results for the 12 samples analyzed for OCPs is provided in **Table 2**. The OCPs detected in these samples included total chlordane, alpha-chlordane, gamma-chlordane, 4,4'-DDD, 4,4'-DDE, 4.4'-DDT, heptachlor, heptachlor epoxide, betta-BHC, toxaphene. All concentrations of OCPs were below DTSC-recommended SLs for commercial/industrial sites (further discussed below).

Discrete Surface Soil Samples

Analytical results of metals concentrations in the discrete surface soil samples are summarized in **Table 2**. The metals detected in samples collected were arsenic, barium, chromium, cobalt, copper, lead, molybdenum, nickel, vanadium, and zinc. With the exception of arsenic in Surface 5, Surface 7, Surface 8, and Surface 10, and lead in Surface 5, Surface 8, Surface10 through Surface 13, Surface 15, and Surface 16, all other metals were detected at, or below, concentrations typically found in native California soils.
Three discrete surface samples were analyzed for hexavalent chromium; one sample (Surface 5) had a trace concentration of 0.159 mg/kg **(Table 2)**, which is below the DTSC-recommended SLs for commercial/industrial sites (further discussed below).

Eight of the samples were analyzed for OCPs. Four OCPs were detected in the surface samples: total chlordane, 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT. All concentrations of OCPs detected were below their respective DTSC-recommended SLs for commercial/industrial sites (further discussed below).

Surface Composite Soil Samples

Analytical results of metals concentrations in the surface composite soil samples are summarized in **Table 2**. The metals detected in these samples were arsenic, barium, chromium, cobalt, copper, lead, molybdenum, nickel, vanadium, and zinc. All metals were detected at, or below, concentrations typically found in native California soils.

Four of the composite surface samples were analyzed for OCPs. Five OCPs were detected in the surface samples that included total chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and dieldrin. All concentrations of OCPs detected were below the DTSC-recommended SLs for commercial/industrial sites (further discussed below).

ASBESTOS SAMPLES

Analytical results for asbestos in building materials and soil samples are summarized in **Tables 3 and 4**, respectively. Seven building materials were sampled that included insulation, gasket wrap, miscellaneous wrap, woven insulation, tar paper, orange brick, and yellow brick. With the exception of the orange and yellow brick, all the samples contained asbestos greater than 1%, which would classify these materials as an asbestos-containing material (ACM).

Asbestos was detected in all eight soil samples that were analyzed at concentrations ranging from 0.25% to 5.0%.

CATALYST SAMPLES

Analytical results for the three catalyst samples are summarized in **Table 5** (TPH and SVOCs) and **Table 6** (metals). The metals detected in samples collected were barium, chromium, copper, lead, mercury, nickel, silver, vanadium, and zinc. All metals were detected at, or below, concentrations typically found in native California soils.

TPH-g was not analyzed for the catalyst samples. TPH-d was detected only in the Catalyst-2 sample at a concentration of 4,770 mg/kg. TPH-o was detected in all three catalyst samples at concentrations ranging from 10.9 to 5,430 mg/kg, with the Catalyst-2 sample having the highest concentration. A total of 11 SVOCs were detected: benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, anthracene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene, and 2-methlynaphthalene. All concentrations of SVOCs detected were below the DTSC-recommended SLs for commercial/industrial sites (further discussed below).

6 DISPOSAL OF INVESTIGATION-DERIVED WASTES

Soil cuttings generated during drilling on the Property were placed in 55-gallon steel drums, labeled, and stored on the Property. As required by TRC, each drum was individually sampled and analyzed for TPH-g, TPH-d, VOCs, and Title 22 Metals by Eurofins/Calscience. Documentation of the appropriate recycling and/or disposal of waste drums is available upon request.

7 DISCUSSION OF ANALYTICAL RESULTS AND REGULATORY LIMITS

DTSC, Human and Ecological Risk Office (HERO) has issued Human Health Risk Assessment Note Number 3 (Note No. 3), most recently revised in June 2018. HERO Note No. 3 provides DTSC-modified Screening Levels (DTSC-SLs) for soil, tap water, and ambient air for use in evaluating human health risks at hazardous waste sites and permitted facilities. For the majority of the approximately 800 listed chemicals, HERO Note No. 3 recommends the use of the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs; most recently updated in May 2018), except in cases where DTSC has calculated a more stringent screening level or recommended using another screening level (e.g. California Human Health Screening Level [CHHSL]). Human health risks associated with contact of contaminated soil (dermal, ingestion, etc.) in California can be assessed by comparing concentrations detected at the Property to the most stringent (or conservative) of these values for each chemical, referred to by SCS throughout this report as the "DTSC-Recommended SLs" and presented on the appropriate tables. The DTSC-Recommended SLs referenced in this Phase II Report are those for industrial/commercial use, as the anticipated use of the Property is industrial/commercial following redevelopment.

VOLATILE ORGANIC COMPOUNDS (VOCS)

VOCs **(Table 1)** in soil samples taken by SCS with concentrations above the DTSC-Recommended SLs for industrial/commercial sites are as follows:

- Benzene was detected in two samples above its DTSC-Recommended SL of 460 µg/kg. Both of these samples were from boring SB9 (10 and 15 feet bgs, up to 6,060 µg/kg).

- Naphthalene was detected in five samples above its DTSC-Recommended SL of 17,000 µg/kg. Four of these samples were from boring SB9 (10, 15, 30, and 40 feet bgs, up to 209,000 µg/kg) and one sample was from Trench T1 (up to 38,600 µg/kg).

- Xylenes were detected in two samples above its DTSC-Recommend SL of 11,000 µg/kg. Both of these samples were from boring SB9 (10 and 15 feet bgs, up to 176,000 µg/kg).

Figure 3 shows boring locations and analytical data for the SCS samples with VOCs above DTSC-recommended SLs for commercial sites, including the borings and data from the Stantec investigation (See Appendix F) that exceeded the DTSC-recommended SLs. The Stantec data was similar to the SCS Phase II investigation, as it identified the same three VOCs (benzene, naphthalene, and xylenes) above DTSC-recommended SLs, and with similar concentrations. The samples with elevated VOC concentrations are located in and around the area of the former refinery disposal area with impacts up to 40 feet bgs.

As shown in **Table 1**, the concentrations of all other VOCs were well below their corresponding DTSC-Recommended SLs for soils at commercial/industrial sites.

SEMI VOLATILE ORGANIC COMPOUNDS (SVOCS)

SVOCs **(Table 1)** in soil samples with concentrations above DTSC-Recommended SLs for industrial/commercial sites are as follows:

- Benzo(a)pyrene (B(a)P) was detected in four samples above its DTSC-Recommended SL of 2,100 µg/kg. The 9-foot sample from trench T-1, 1.5-foot sample from boring B8, 5-foot sample from boring SB3, and 10-foot sample from boring SB9 contained B(a)P at concentrations up to 10,400 µg/kg.

- Benzo(a)anthracene was detected in one sample above its DTSC-Recommended SL of 21,000 µg/kg. The 1.5-foot sample from boring B8 contained benzo(a)anthracene at a concentration of 21,700 µg/kg.

- Dibenz(a,h)-anthracene was detected in two samples above its DTSC-Recommended SL of 2,100 µg/kg. The 9-foot sample from trench T-1 and the 1.5-foot sample from boring B8 contained Dibenz(a,h)-anthracene at concentrations up to 5,880 µg/kg.

Figure 4 shows boring locations and analytical data for those samples with SVOCs above DTSC-recommended SLs for commercial sites. As shown in **Table 1**, all other SVOC concentrations were well below their corresponding DTSC-Recommended SLs for soils at commercial/industrial sites.

It should be noted that naphthalene is detected using both EPA Methods 8270C and 8260B. The EPA Method 8260B generally detects naphthalene at higher concentrations, and therefore naphthalene data was discussed above in the section on VOCs.

ORGANOCHLORINE PESTICIDES (OCPS) AND POLYCHLORINATED BYPHENOLS (PCBS)

As shown in **Tables 1 and 2**, the detected concentrations of PCBs and OCPs were well below their corresponding DTSC-Recommended SLs for commercial sites. Therefore, PCBs and OCPs do not appear to represent a significant risk to human health for industrial/commercial exposure scenarios and do not warrant further investigation.

TOTAL PETROLEUM HYDROCARBONS (TPH)

DTSC has not established screening levels for generic classes of compounds such as TPH. Therefore, this report uses the Los Angeles Regional Water Quality Control Board's (LARWQCB) established cleanup guidelines, also known as soil screening levels (SSLs), for assessing soils based on the potential for groundwater contamination (LARWQCB, 1996). Based on the depth to groundwater that ranges from approximately 25 to 80 feet bgs at the Property, the SSLs for petroleum hydrocarbons between 20 and 150 feet above groundwater are:

- TPH-g or gasoline-range hydrocarbons (C4-C12) – 500 mg/kg
- TPH-d or diesel-range hydrocarbons (C13-C22) – 1,000 mg/kg

- TPH-o or oil/heavy-range hydrocarbons (C23-C40) – 10,000 mg/kg.

TPH **(Table 1)** in soil samples from this investigation with concentrations above the LARWQCB SSLs are as follows:

- TPH-g detected in SB9 at 10, 15, 30, and 40 feet bgs; T1 at 9 feet bgs; SB6 at 5 feet bgs; and SB7 at 20 feet bgs;

- TPH-d detected in T1 at 9 feet bgs; T2 at 14 feet bgs; B-4 at 10 feet bgs; SB6 at 5 and 15 feet bgs; SB7 at 10, 15, and 20 feet bgs; SB8 at 15 feet bgs; and SB9 at 10, 15, 30, and 40 feet bgs;

- TPH-o detected in one sample, SB7 at 20 feet bgs.

Figure 5 shows boring locations and analytical data for those samples with TPH above SSLs, including the borings and data from the Stantec investigation that exceeded the DTSC-recommended SLs.

METALS

Regulatory guidance for metals in soil is based on comparison to both background (i.e. natural soil concentrations) and risk-based concentrations. The Kearney Foundation of Soil Science published a special report presenting background concentrations of trace and major elements in California soils (Bradford et al, 1996). Human health risks associated with direct contact with contaminated soil (dermal, ingestion, etc.) are initially assessed by comparing concentrations detected at the Property to the most stringent (or conservative) of the RSLs, DTSC-SLs or other screening levels (e.g. California Human Health Screening Level [CHHSL] used for lead), cumulatively referred to in this report as the DTSC-Recommended SLs (see **Table 2).**

As shown in **Table 2**, with the exception of arsenic and lead, the analytical results for all metals in the samples analyzed were below or within typical background concentrations ranges for California soils and below their corresponding DTSC-Recommended SLs for soils at commercial/industrial sites.

With regard to arsenic, the US EPA has acknowledged that in some cases, the predictive risk-based models generate SLs that lie within or even below typical background concentrations. If natural background concentrations are higher than the risk-based SLs, an adjustment of the SL is probably needed. US EPA uses naturally occurring arsenic in soils as an example. Further, the DTSC has acknowledged that the strict use of SLs is impractical and has set acceptable levels of arsenic in soil in the range of 8 to 12 mg/kg for school sites in California (DTSC, *Arsenic Strategies*, March 21, 2007). A total of 13 samples collected from the Property exceeded the DTSC-Recommended SL for arsenic of 0.36 mg/kg. However, when compared to the acceptable concentration range set by DTSC only four of the SCS samples exceeded 12 mg/kg (up to 47 mg/kg).

Figure 6 shows the four locations SCS identified with arsenic concentrations greater than 12 mg/kg, as well as one additional location identified by Stantec as part of its investigation. As

shown, those samples with elevated arsenic were collected from the surface to 15 feet bgs, and occur sporadically within the former Refinery disposal area.

Lead samples were collected throughout the Property. Total lead concentrations greater than the DTSC-Recommended SL for commercial/industrial sites were only detected in the former refinery disposal area. **Figure 7** shows those samples from the SCS and Stantec investigations with total lead concentrations above commercial screening level for lead of 320 mg/kg. The elevated lead concentrations were distributed throughout the former Refinery disposal area to depths of 20 feet bgs, and at concentrations up to 14,000 mg/kg.

Figure 7 also shows the results from soluble analysis from the SCS and Stantec investigations where soluble lead concentrations were above the STLC and TCLP limits. Twenty-four samples exceeded the STLC of 5 mg/L and one sample exceeded the TCLP of 5 mg/L. Soil that exceeds the STLC is considered hazardous waste under California regulations for the purposes of disposal; soil that exceeds the TCLP is considered a hazardous waste under federal regulations.

ASBESTOS

Of the seven suspect ACMs collected and analyzed from the refinery disposal area, five were found to contain asbestos at concentrations ranging from 15% to 70%. A friable ACM is defined as a material that can be crumbled, pulverized, or reduced to a powder by hand pressure, potentially releasing airborne asbestos fibers. Non-friable ACMs can become friable when broken during demolition. All five ACMs collected are considered friable. The Property lies within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Under the SCAQMD Rule 1403 the handling of ACM at the Property would most likely fall under Procedure 5 (Approved Alternative Removal Procedures).

Figure 8 shows the locations and asbestos concentrations for the eight soil samples analyzed for asbestos, including the area that is estimated to have asbestos concentrations in soil above 1%. The area with the highest asbestos content in soil, up to 5% and up to 10 feet in depth, coincides with the refinery disposal area. Per SCAQMD Rule 1466 (Control of Particulate Emissions from Soils with Toxic Air Contaminants), soil containing asbestos requires proper handling (and monitoring) during earth-moving activities to reduce fugitive dust emissions and worker exposure.

8 CONCLUSIONS AND RECOMMENDATIONS

Based on previous and the current investigations, SCS concludes the following:

1. There are no significant detections of PCBs on the Property (one sample with less than 1 mg/kg).

2. The results for organochlorine pesticides (OCP) on the Property are all less than DTSC- Recommended SLs.

3. Friable asbestos-containing materials are present within the Refinery disposal area on the Property. Soil at the Property also contains asbestos at concentrations

up to 5%. The soil samples with the highest asbestos concentrations are located in the Refinery disposal area, with lower concentrations in the immediate surrounding area. Any excavation of soil from the disposal area should be conducted under a South Coast AQMD Procedure 5 permit in accordance with Rule 1466.

4. The previous investigation by Stantec identified elevated methane (up to 23%) and fuel-related VOCs in soil vapor on the Property. Appropriate vapor intrusion and methane protection measures should be evaluated for future buildings.

5. There is no evidence of leaks from the numerous pipelines surrounding and crossing the Property based on the soil data collected during this and previous investigations.

6. SCS and Stantec investigations have identified elevated levels of metals, including arsenic (up to 54 mg/kg), total lead (up to 14,000 mg/kg), chromium (up to 2,400 mg/kg), copper (up to 1,400 mg/kg), and mercury (up to 53 mg/kg) in one or more samples on the Property. The soluble analyses for lead show up to 1,000 mg/l STLC lead and up to 21 mg/l TCLP lead. SCAQMD Rule 1466 would apply to particulate emissions from soils with toxic air contaminants caused by any excavation or earthwork in the refinery disposal area.

7. Primary contaminants at the Property include fuel-related hydrocarbons, VOCs and SVOCs. TPH and VOCs are present above screening levels in the Refinery disposal area and therefore would be considered a potential threat to groundwater by the LARWQCB. CAQMD Rule 1166 (Volatile Organic Compound Emissions from Decontamination of Soil) monitoring for VOCs during any excavation or earthwork.

8. In borings SB15 and SB17, along the northern property line with the active Refinery, the trace detections of TPH and/or VOCs in soil samples collected from deeper soils (50-51 msl) in borings SB15 and SB 17, may be due to off-gassing from groundwater/FHP. A second theory is that these hydrocarbons and VOCS may be due to lateral migration in the vadose zone of contamination in soils from the adjacent tank farm to the northeast (located across the railroad tracks). Additional investigation of these hydrocarbons by TBB is not warranted.

9. The vertical extent of hydrocarbons at boring SB9 were not defined. Impacts extend to 40 feet bgs, equivalent to about 51 feet msl, which is approximately 20 feet above groundwater. As a result, further investigation is warranted.

10. There are variations in types and levels of chemicals of potential concern in the refinery disposal area that should be considered during any future investigation and remediation.

11. Comparison of field screening using an XRF to laboratory analysis data showed a good correlation for lead. Therefore, using an XRF during future investigation and remediation activities would be an appropriate screening tool.

Based on the findings presented above, SCS recommends that future investigations and subsequent remediation work be performed with the oversight of the Los Angeles Regional Water Quality Control Board, which is the regulatory agency currently providing oversight for investigation and remediation at the adjacent Refinery.

9 REFERENCES

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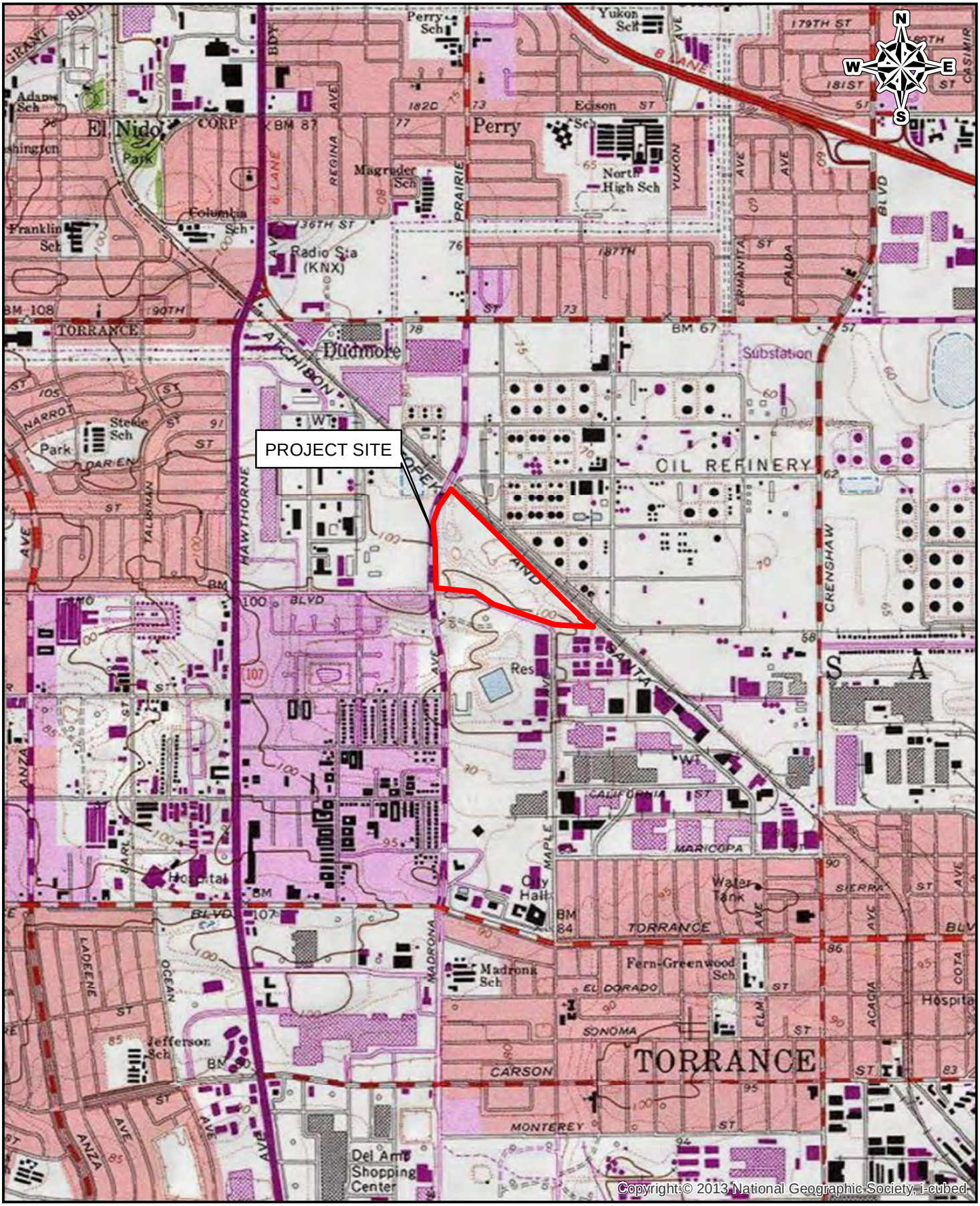
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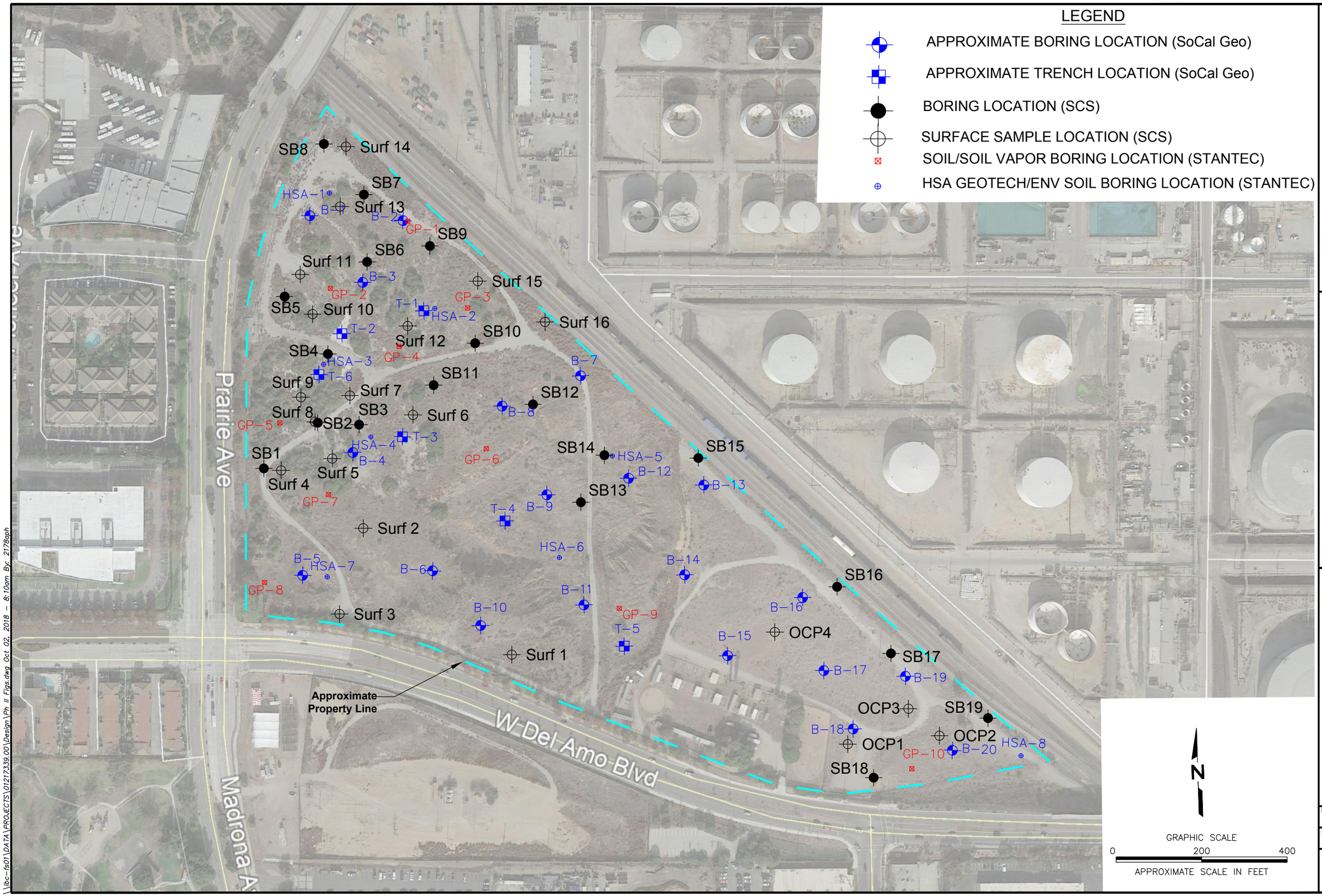
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United States Environmental Protection Agency, Region IX, May 2018 *Regional Screening* Levels.

FIGURES 1 THROUGH 9



SCS ENGINEERS 3900 KILROY AIRPORT WAY, STE 100 LONG BEACH, CALIFORNIA 90806-6816	SITE: North Posse Site 3041 Del Amo Blvd. Torrance, California 90503	Job No.: 01217339.00 T2 Title: SITE LOCATION MAP	FIGURE 1



SHEET TITLE: BORING LOCATION MAP

PROJECT TITLE: NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT: TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

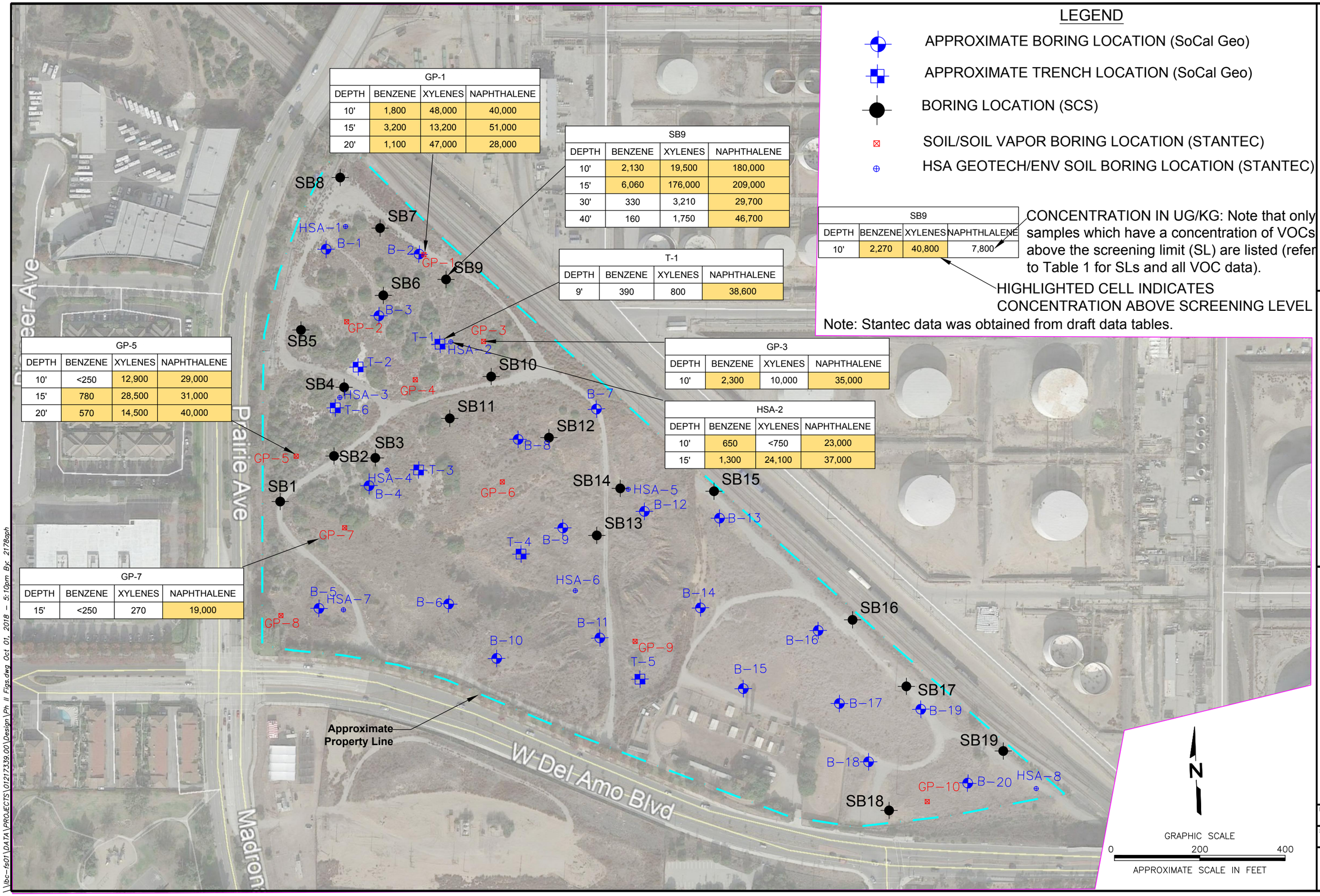
PROJ. NO. 01217339.00 Task 3 | DSN. BY: DESIGN | DWN. BY: APH | CHK. BY: KWG | ACAD FILE: LOCATION | APP. BY: KWG

DATE: AUGUST 2018

SCALE: 1" = 200'

FIGURE NO. 2

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GP-1			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
10'	1,800	48,000	40,000
15'	3,200	13,200	51,000
20'	1,100	47,000	28,000

SB9			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
10'	2,130	19,500	180,000
15'	6,060	176,000	209,000
30'	330	3,210	29,700
40'	160	1,750	46,700

T-1			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
9'	390	800	38,600

GP-5			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
10'	<250	12,900	29,000
15'	780	28,500	31,000
20'	570	14,500	40,000

GP-3			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
10'	2,300	10,000	35,000

HSA-2			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
10'	650	<750	23,000
15'	1,300	24,100	37,000

GP-7			
DEPTH	BENZENE	XYLENES	NAPHTHALENE
15'	<250	270	19,000

LEGEND

- APPROXIMATE BORING LOCATION (SoCal Geo)
- APPROXIMATE TRENCH LOCATION (SoCal Geo)
- BORING LOCATION (SCS)
- SOIL/SOIL VAPOR BORING LOCATION (STANTEC)
- HSA GEOTECH/ENV SOIL BORING LOCATION (STANTEC)

SB9			
DEPTH	BENZENE	XYLENES	NAPHTHLALENE
10'	2,270	40,800	7,800

CONCENTRATION IN UG/KG: Note that only samples which have a concentration of VOCs above the screening limit (SL) are listed (refer to Table 1 for SLs and all VOC data).

HIGHLIGHTED CELL INDICATES CONCENTRATION ABOVE SCREENING LEVEL

Note: Stantec data was obtained from draft data tables.

SHEET TITLE: VOCs IN SOIL GREATER THAN SCREENING LIMITS

PROJECT TITLE: NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA 90503

CLIENT: TORRANCE BLACK BEAUTY LLC, PIER 1, BAY 1, SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ.NO: 01217339.00 Task 3 | DSN. BY: DESIGN | DWN. BY: APH | CHK. BY: KWG | ACAD FILE: LOCATION | APP. BY: KWG

DATE: AUGUST 2018

SCALE: 1" = 200'

FIGURE NO. 3

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LEGEND

- APPROXIMATE BORING LOCATION (SoCal Geo)
- APPROXIMATE TRENCH LOCATION (SoCal Geo)
- BORING LOCATION (SCS)
- SOIL/SOIL VAPOR BORING LOCATION (STANTEC)
- HSA GEOTECH/ENV SOIL BORING LOCATION (STANTEC)

T-1			
DEPTH	Benzo(a)-pyrene	Benzo(a)-anthracene	Dibenz(a,h)-anthracene
9'	4,140	8,950	2,980

CONCENTRATION IN UG/KG: Note that only samples which have a concentration of VOCs above the screening limit (SL) are listed (refer to Table 1 for SLs and all SVOC data).

HIGHLIGHTED CELL INDICATES CONCENTRATION ABOVE SCREENING LEVEL

Note: Stantec data was obtained from draft data tables; the detection limits listed for Benzo(a)pyrene were high and exceeded the SL.

T-1			
DEPTH	Benzo(a)-pyrene	Benzo(a)-anthracene	Dibenz(a,h)-anthracene
9'	4,140	8,950	2,980

B-8			
DEPTH	Benzo(a)-pyrene	Benzo(a)-anthracene	Dibenz(a,h)-anthracene
1.5'	10,400	21,700	5,880

SB3			
DEPTH	Benzo(a)-pyrene	Benzo(a)-anthracene	Dibenz(a,h)-anthracene
10'	3,670	1,130	1,700

SB9			
DEPTH	Benzo(a)-pyrene	Benzo(a)-anthracene	Dibenz(a,h)-anthracene
10'	5,700	7,620	<200

Pioneer Ave

Madrona Ave

W Del Amo Blvd

Approximate Property Line

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB12 SB13 SB14 SB15 SB16 SB17 SB18 SB19

HSA-1 HSA-2 HSA-3 HSA-4 HSA-5 HSA-6 HSA-7 HSA-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-16 B-17 B-18 B-19 B-20

T-1 T-2 T-3 T-4 T-5 T-6

GP-1 GP-2 GP-3 GP-4 GP-5 GP-6 GP-7 GP-8 GP-9 GP-10

GRAPHIC SCALE
0 200 400
APPROXIMATE SCALE IN FEET

SHEET TITLE: SVOCs IN SOIL GREATER THAN SCREENING LIMITS

PROJECT TITLE: NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT: TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. 01217339.00 Task 3 | DSN. BY: DESIGN | DWN. BY: APH | CHK. BY: KWG | ACAD FILE: LOCATION | APP. BY: KWG

DATE: AUGUST 2018

SCALE: 1" = 200'

FIGURE NO. 4

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SB8			
DEPTH	TPH-G	TPH-D	TPH-O
15'	2.7	4,860	3,240

HSA-1			
DEPTH	TPH-G	TPH-D	TPH-O
5'	2.9	16,000	6,700
10'	2,100	48,000	22,500
15'	290	2,800	5,600

SB6			
DEPTH	TPH-G	TPH-D	TPH-O
5'	1,490	22,900	3,000
15'	0.77	1,080	<10

GP-2			
DEPTH	TPH-G	TPH-D	TPH-O
5'	<1.0	1,000	4,200
15'	<1.0	5,000	4,380

T-2			
DEPTH	TPH-G	TPH-D	TPH-O
14'	118	11,500	8,900

HSA-3			
DEPTH	TPH-G	TPH-D	TPH-O
5'	<1.0	1,700	1,700

GP-5			
DEPTH	TPH-G	TPH-D	TPH-O
5'	<1.0	6,300	23,000
10'	1,300	95,000	35,400
15'	1,100	19,000	5,230
20'	670	3,000	8,180

HSA-4			
DEPTH	TPH-G	TPH-D	TPH-O
10'	300	15,000	7,100
20'	640	16,000	4,650
25'	970	3,600	1,490

B-4			
DEPTH	TPH-G	TPH-D	TPH-O
10'	29.6	2,460	830

SB7			
DEPTH	TPH-G	TPH-D	TPH-O
10'	7.91	1,640	924
15'	12.8	1,940	2,800
20'	517	24,400	10,700

GP-1			
DEPTH	TPH-G	TPH-D	TPH-O
10'	1,800	19,000	5,200
15'	2,300	15,000	4,400
20'	4,900	10,000	2,960

SB9			
DEPTH	TPH-G	TPH-D	TPH-O
10'	2,090	24,900	6,600
15'	4,620	27,400	2,200
15'	1,270	8,300	718
20'	1,890	2,850	240

T-1			
DEPTH	TPH-G	TPH-D	TPH-O
9'	2,270	40,800	7,800

GP-3			
DEPTH	TPH-G	TPH-D	TPH-O
5'	<1.0	1,900	8,700
10'	1,800	130,000	86,000
15'	680	3,500	1,330
20'	420	1,100	400

HSA-2			
DEPTH	TPH-G	TPH-D	TPH-O
10'	2,000	25,000	10,300
15'	3,400	46,000	15,500
20'	2,700	6,400	2,390

GP-7			
DEPTH	TPH-G	TPH-D	TPH-O
5'	<1.0	2,400	2,520
10'	58	4,700	3,200
15'	540	7,500	5,000

GP-4			
DEPTH	TPH-G	TPH-D	TPH-O
5'	270	120,000	17,300
15'	570	50,000	21,500

LEGEND

- APPROXIMATE BORING LOCATION (SoCal Geo)
- APPROXIMATE TRENCH LOCATION (SoCal Geo)
- BORING LOCATION (SCS)
- SOIL/SOIL VAPOR BORING LOCATION (STANTEC)
- HSA GEOTECH/ENV SOIL BORING LOCATION (STANTEC)

CONCENTRATION OF TPH IN MG/KG:
Note that only samples which have a concentration of TPH-G, TPH-D, or TPH-O above the screening limit are listed.

HIGHLIGHTED CELL INDICATES CONCENTRATION ABOVE SCREENING LEVEL

Note: Stantec data was obtained from draft data tables.

Approximate Property Line

GRAPHIC SCALE
0 200 400
APPROXIMATE SCALE IN FEET

SHEET TITLE: TPH IN SOIL GREATER THAN SCREENING LIMIT

PROJECT TITLE: NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

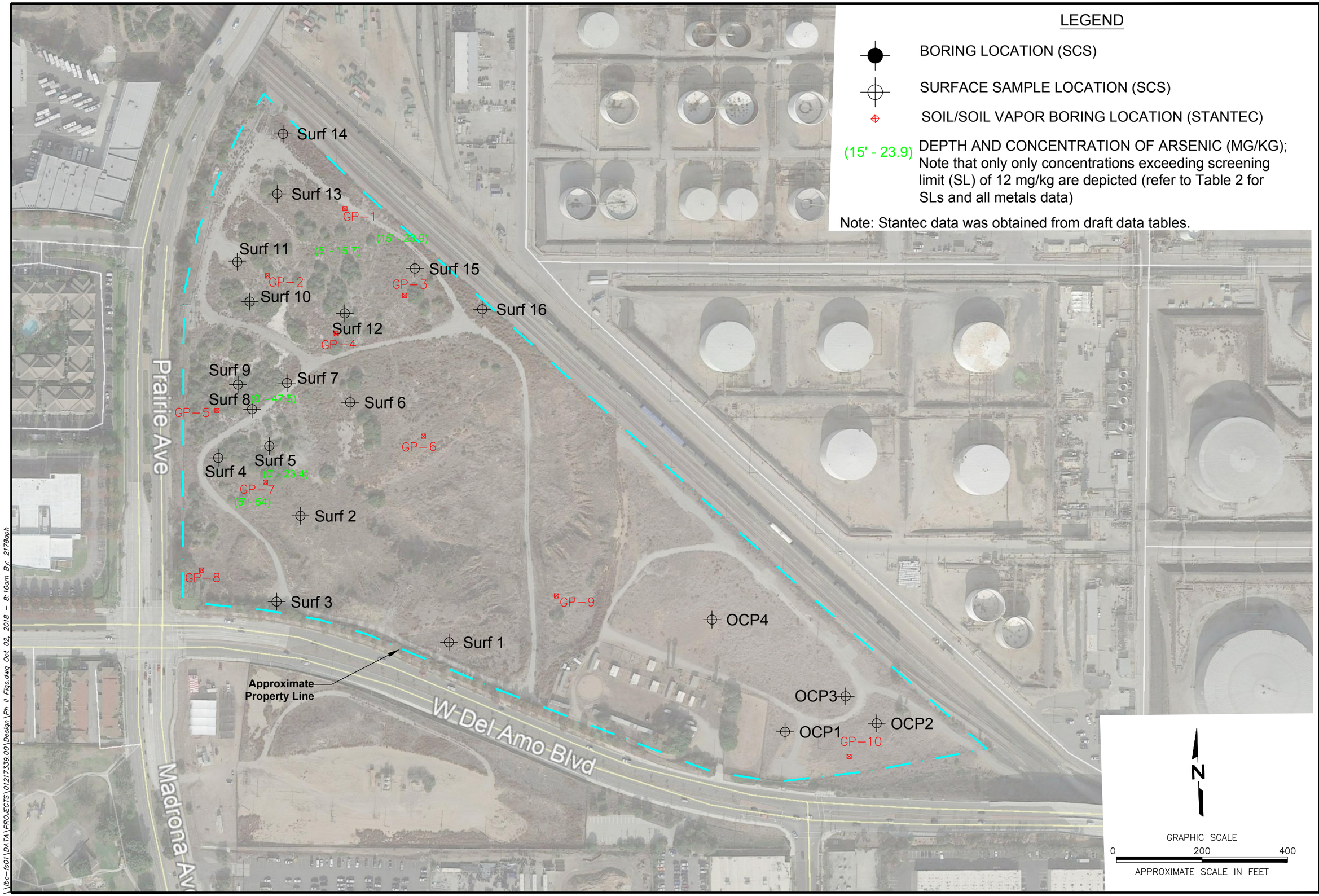
CLIENT: TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO: 01217339.00 Task 3
DSN. BY: DESIGN
DWN. BY: APH
CHK. BY: KWG
ACAD FILE: LOCATION
APP. BY: KWG

DATE: AUGUST 2018
SCALE: 1" = 200'
FIGURE NO. 5

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SHEET TITLE:
ARSENIC IN SOIL GREATER THAN SCREENING LIMIT

PROJECT TITLE:
NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT:
TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

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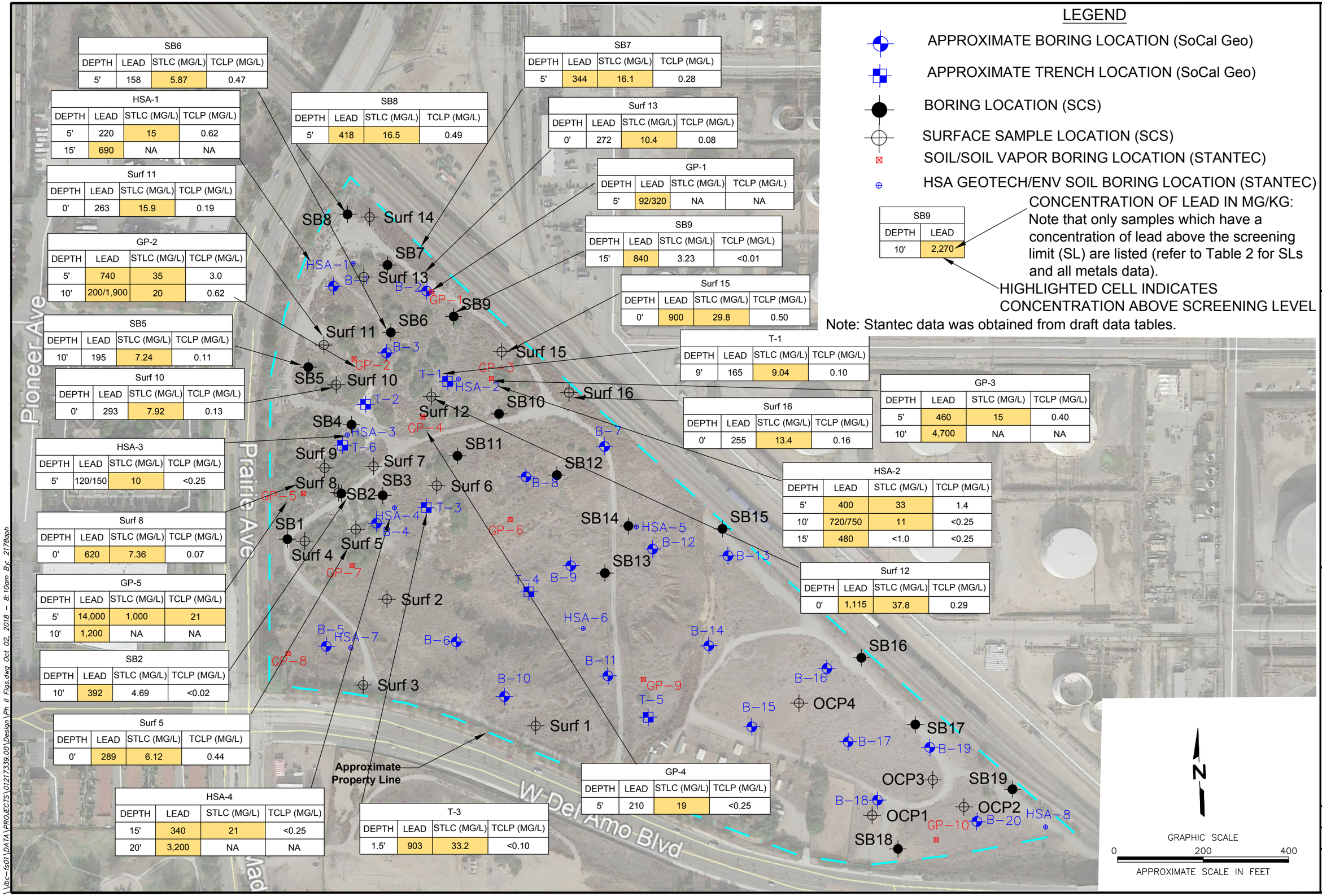
PROJ. NO: 01217339.00 Task 3
DSN. BY: DESIGN
DWN. BY: APH
CHK. BY: KWG
ACAD FILE: LOCATION
APP'D BY: KWG

DATE: 6/13/2018

SCALE: 1" = 200'

FIGURE NO. 6

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SB6			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	158	5.87	0.47

HSA-1			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	220	15	0.62
15'	690	NA	NA

Surf 11			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	263	15.9	0.19

GP-2			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	740	35	3.0
10'	200/1,900	20	0.62

SB5			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
10'	195	7.24	0.11

Surf 10			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	293	7.92	0.13

HSA-3			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	120/150	10	<0.25

Surf 8			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	620	7.36	0.07

GP-5			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	14,000	1,000	21
10'	1,200	NA	NA

SB2			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
10'	392	4.69	<0.02

Surf 5			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	289	6.12	0.44

HSA-4			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
15'	340	21	<0.25
20'	3,200	NA	NA

SB8			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	418	16.5	0.49

SB7			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	344	16.1	0.28

Surf 13			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	272	10.4	0.08

GP-1			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	92/320	NA	NA

SB9			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
15'	840	3.23	<0.01

Surf 15			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	900	29.8	0.50

T-1			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
9'	165	9.04	0.10

Surf 16			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	255	13.4	0.16

GP-3			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	460	15	0.40
10'	4,700	NA	NA

HSA-2			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	400	33	1.4
10'	720/750	11	<0.25
15'	480	<1.0	<0.25

Surf 12			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
0'	1,115	37.8	0.29

GP-4			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
5'	210	19	<0.25

T-3			
DEPTH	LEAD	STLC (MG/L)	TCLP (MG/L)
1.5'	903	33.2	<0.10

LEGEND

APPROXIMATE BORING LOCATION (SoCal Geo)

APPROXIMATE TRENCH LOCATION (SoCal Geo)

BORING LOCATION (SCS)

SURFACE SAMPLE LOCATION (SCS)

SOIL/SOIL VAPOR BORING LOCATION (STANTEC)

HSA GEOTECH/ENV SOIL BORING LOCATION (STANTEC)

SB9	
DEPTH	LEAD
10'	2,270

CONCENTRATION OF LEAD IN MG/KG:
Note that only samples which have a concentration of lead above the screening limit (SL) are listed (refer to Table 2 for SLs and all metals data).

HIGHLIGHTED CELL INDICATES CONCENTRATION ABOVE SCREENING LEVEL

Note: Stantec data was obtained from draft data tables.

GRAPHIC SCALE
0 200 400
APPROXIMATE SCALE IN FEET

SHEET TITLE:
LEAD IN SOIL GREATER THAN SCREENING LIMITS

PROJECT TITLE:
NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT:
TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ NO	01217339.00 Task 3	DSN. BY	DESIGN
DWN. BY	APH	CHK. BY	KWG
ACAD FILE	LOCATION	APP. BY	KWG

DATE: AUGUST 2018

SCALE: 1" = 200'

FIGURE NO. 7

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LEGEND

- BORING LOCATION (SCS)
- SURFACE SAMPLE LOCATION (SCS)
- (3.0%) PERCENT OF CHRYSOTILE OR AMOSITE ASBESTOS IN SOIL

SB8 Surf 14
SB7
Surf 13 0.58%
SB9
SB6 3.0%
Surf 11 3.0%
SB5
Surf 15
Surf 10
Surf 16 0.46%
SB10
Surf 12 5.0%
SB4 5.0%
SB11
Surf 9
Surf 7
SB12
Surf 8
SB2
SB3
Surf 6 0.46%
SB1
Surf 4
Surf 5
SB14
SB15
SB13
Surf 2
Estimated Extent of Asbestos in Soil > 1%
SB16
Surf 3 0.25%
OCP4
Surf 1
SB17
OCP3
SB19
OCP2
OCP1
SB18
Approximate Property Line
W Del Amo Blvd
Prairie Ave
Madrona Ave

GRAPHIC SCALE
0 200 400
APPROXIMATE SCALE IN FEET

SHEET TITLE: ASBESTOS IN SOIL

PROJECT TITLE:
NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT:
TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

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PROJ. NO: 01217339.00 Task 3
DSN. BY: DESIGN
DWN. BY: APH
CHK. BY: KWG
ACAD FILE: LOCATION
APP'D BY: KWG

DATE: August 2018
SCALE: 1" = 200'
FIGURE NO. 8

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LEGEND

1 — LOCATION OF SURFACE COMPOSITE SAMPLES

Prairie Ave

8
6
9
10
7
5
11
4
3
1
2

Approximate Extents
Bottom of Borrow Pit

Approximate
Property Line

W Del Amo Blvd

Madron

GRAPHIC SCALE
0 150 300
APPROXIMATE SCALE IN FEET

SHEET TITLE:
SITE MAP SHOWING COMPOSITE SURFACE SAMPLE LOCATIONS

PROJECT TITLE:
NORTH POSSE
3041 DEL AMO BOULEVARD
TORRANCE, CALIFORNIA 90503

CLIENT:
TORRANCE BLACK BEAUTY LLC
PIER 1, BAY 1
SAN FRANCISCO, CALIFORNIA 94111

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PROJ NO: 01217339.00 Task 3 | DWN BY: APH | CHK BY: KWG | DSN BY: DESIGN | ACAD FILE: LOCATION | APP BY: KWG

DATE: August 2018

SCALE: 1" = 200'

FIGURE NO. 9

\\lbc--fs01\DATA\PROJECTS\01217339.00\Design\Asbesos in Soil Fig.dwg Oct 02, 2018 - 8:10am By: 2178aph

TABLES 1 THROUGH 7

TABLE 1
SUMMARY OF ANALYTICAL RESULTS FOR SOIL - TPH, VOCs, SVOCs, and PCBs
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (BGS)	Surface Elevation (ft above msl)	Sample Elevation	Sampe Date	Total Petroleum Hydrocarbons (EPA Method 8015M)			Volatile Organic Compounds (EPA Method 8260B)*																		Semi-Volatile Organic Compounds (EPA Method 8270C)*																				PCBs (EPA Method 8082)*
					Gasoline Range (C_4-C_{12})	Diesel Range (C_{13}-C_{22})	Heavy Hydrocarbon Range (C_{23}-C_{40})	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,2,4- Trichlorobenzene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Toluene	tert-Butyl Alcohol	Vinyl Chloride	Xylenes	2-Butanone (MEK)	Methyl tert-Butyl Ether	Naphthalene	2-Methlynaphthalene	2-Methylphenol(O-cresol)	2,4-Dimethylphenol	Carbazole	Phenanthrene	Anthracene	Fluoranthene	Fluorene	Pyrene	bis(2-Ethylhexyl) Phthalate	Benzo(a)anthracene	Benzoic Acid	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-C,D)Pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene	All Analytes
					milligrams per kilogram (mg/kg), equivalent to parts per million			micrograms per kilogram (ug/kg), equivalent to parts per billion																																						
T1	9	91	82	5/29/2018	**2,270**	**40,800**	**7,800**	**390**	**4,240**	**3,170**	**306**	**8,680**	**3,770**	**213**	**38,600**	**7,760**	**678**	**380**	<176	<176	<8,800	<176	**800**	<1760	<176	**22,800**	**120,000**	<200	<200	<200	**16,000**	<200	**686**	<200	**7,620**	<200	**8,950**	<800	**17,900**	**4,360**	**4,430**	**4,140**	**1,190**	**2,980**	**3,030**	ND
T1	19.5	91	71.5	5/29/2018	**87.7**	**880**	**320**	<44	**380**	**193**	<44	**341**	**147**	**218**	**4,450**	**413**	**166**	**490**	**88.9**	<44	<2,200	<44	**132**	<440	<44	**532**	**1,050**	<200	<200	<200	**692**	<200	<200	<200	**234**	<200	<200	<800	**299**	<200	<200	<200	<200	<200	<200	ND
T2	14	90	76	5/29/2018	**118**	**11,500**	**8,900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T3	0.5	89	88.5	5/29/2018	**0.22**	**434**	**450**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T3	1.5	89	87.5	5/29/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T4	8.5	72	63.5	5/29/2018	<0.2	<5	**46.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T4	14.5	72	57.5	5/29/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T5	7	90	83	5/29/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T6	0.5	90	89.5	5/29/2018	<0.2	**935**	**574**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4	10	91	81	5/29/2018	**29.6**	**2,460**	**830**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<200	<200	<200	<200	<200	<200	<200	<200	<200	**2,040**	<200	**626**	<800	**1,280**	**3,110**	**3,160**	**2,000**	**2,230**	**389**	**6,900**	ND
B7	30	78	48	5/30/2018	**0.65**	<5	<10	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<55	<1.1	<2.2	<11	<1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B8	1.5	79	77.5	5/30/2018	**0.49**	<5	**24**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,880**	**4,680**	<200	<200	**2,350**	**47,200**	**2,870**	**2,120**	<200	**15,000**	<200	**21,700**	<800	<200	<200	**8,440**	**10,400**	<200	**5,880**	**6,720**	ND
B9	4	65	61	5/30/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B9	16	65	49	5/30/2018	**1.43**	<5	<10	**14.9**	**1.54**	<1	<1	**7.26**	<1	<1	**16.8**	**2.33**	<1	**21.6**	**7.22**	<1	<50	<1	**18.7**	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B10	2	106	104	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B10	10	106	96	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B11	20	85	65	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	5	86	81	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	10	86	76	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	15	86	71	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	20	86	66	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	30	86	56	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B14	5	95	90	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B14	10	95	85	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B14	15	95	80	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B14	20	95	75	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B15	5	94	89	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B15	10	94	84	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B15	15	94	79	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B15	20	94	74	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B15	25	94	69	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B19	5	86	81	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B19	10	86	76	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B19	15	86	71	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B19	20	86	66	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	5	91	86	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	10	91	81	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	15	91	76	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	20	91	71	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	25	91	66	5/31/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B20	30	91	61	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB1	5	91	86	6/20/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB1	10	91	81	6/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB1	15	91	76	6/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB1	20	91	71	6/20/2018	<0.2	<5	<10	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<55	<1.1	<2.2	<11	<1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB2	5	93	88	6/20/2018	**0.48**	**233**	**275**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB2	10	93	83	6/20/2018	<0.2	**136**	**55.1**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<55	<1	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	**884**	PCB 1260 - **651**
SB2	15	93	78	6/20/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB2	20	93	73	6/20/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	5	91	86	6/19/2018	**0.46**	**516**	**513**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<200	**229**	<200	<200	<200	<200	<200	<200	<200	<200	<200	**1,130**	<800	**3,310**	<200	**3,330**	**3,670**	**1,370**	**1,700**	**3,840**	--
SB3	10	91	81	6/19/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	15	91	76	6/19/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	20	91	71	6/19/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	25	91	66	6/19/2018	**0.32**	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	30	91	61	6/19/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	35	91	56	6/19/2018	<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**69.6**	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	40	91	51	6/19/2018	<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**177**	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	5	95	90	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	10	95	85	6/25/2018	**0.49**	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	15	95	80	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	20	95	75	6/25/2018	<0.2	<5	<10	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<55	<1.1	<2.2	<11	<1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	5	91	86	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	10	91	81	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	15	91	76	6/25/2018	**0.67**	<5	<10	**50.4**	<1.3	<1.3	<1.3	**6.74**	<1.3	<1.3	<1.3	<1.3	<1.3	**4.01**	**2.86**	**48.1**	<65	<1.3	**8.36**	<13	<1.3	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	ND
SB5	20	91	71	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	25	91	66	6/25/2018	<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	5	91	86	6/25/2018	**1,490**	**22,900**	**3,000**	<232	**1,610**	**1,020**	**365**	**720**	**418**	**1,800**	**14,500**	**1,010**	<232	**3,350**	**527**	<232	<11,600	<232	**820**	<2,320	<232	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	10	91	81	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<200	<200	<200	<200	<200	**951**	**251**	**512**	**234**	<200	<200	<200	**975**	**307**	<200	<200	<200	<200	<200	<200	--
SB6	15	91	76	6/25/2018	**0.77**	**1,080**	<10	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	**1,090**	<0.9	<1.8	**46.2**	<0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	20	91	71	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	25	91	66	6/25/2018	**1.37**	<5	<10	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**166**	<1.2	<2.4	<12	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB7	5	99	94	6/20/2018	<0.2	**547**	**655**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<200	<200	<200	<200	<200	<200	<200	<200	<200	**282**	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	--
SB7	10	99	89	6/20/2018	**7.91**	**1,640**	**924**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**6.86**	<5	<5	**890**	<5	<10	<50	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
SB7	15	99	84	6/20/2018	**12.8**	**1,940**	**2,800**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
SB7	20	99	79	6/20/2018	**517**	**24,400**	**10,700**	<12	**131**	**414**	**43.6**	**470**	**437**	**31.4**	**700**	**481**	<12	**37.6**	<12	<12	<600	<12	**100**	<120	<12	<200	<200	<200	<200	<200	<200	<200	<200	<200	**3,090**	**259**	<200	<800	<200	<200	<200	<200	<200	<200	<200	--
SB7	25	99	74	6/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB7	30	99	69	6/20/2018	<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**80.6**	<1	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	--

TABLE 1
SUMMARY OF ANALYTICAL RESULTS FOR SOIL - TPH, VOCs, SVOCs, and PCBs
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (BGS)	Surface Elevation (ft above msl)	Sample Elevation	Sampe Date	Total Petroleum Hydrocarbons (EPA Method 8015M)			Volatile Organic Compounds (EPA Method 8260B)*																		Semi-Volatile Organic Compounds (EPA Method 8270C)*																				PCBs (EPA Method 8082)*
					Gasoline Range (C_4-C_{12})	Diesel Range (C_{13}-C_{22})	Heavy Hydrocarbon Range (C_{23}-C_{40})	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,2,4- Trichlorobenzene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Toluene	tert-Butyl Alcohol	Vinyl Chloride	Xylenes	2-Butanone (MEK)	Methyl tert-Butyl Ether	Naphthalene	2-Methlynaphthalene	2-Methylphenol(O-cresol)	2,4-Dimethylphenol	Carbazole	Phenanthrene	Anthracene	Fluoranthene	Fluorene	Pyrene	bis(2-Ethylhexyl) Phthalate	Benzo(a)anthracene	Benzoic Acid	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-C,D)Pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene	All Analytes
					milligrams per kilogram (mg/kg), equivalent to parts per million			micrograms per kilogram (ug/kg), equivalent to parts per billion																																						
SB8	5	95	90	6/25/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		85		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		80		**2.7**	**4,860**	**3,240**	**1.48**	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	**2.05**	<1.2	<1.2	**174**	<1.2	**3.31**	<12	<1.2	**252**	**297**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	**294**	<200	<200	<200	<200	<200	<200	ND
	20		75		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		70		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		65		**0.25**	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	--
	35		60		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	40		55		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	45		50		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	ND
SB9	5	91	86		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		81		**2,090**	**24,900**	**6,600**	**2,130**	**3,360**	**1,960**	<607	**4,030**	**1,410**	**3,500**	**180,000**	**3,350**	<607	**28,000**	**8,440**	**4,520**	<30,350	<607	**19,500**	<6,070	<607	**33,100**	**85,600**	**3,620**	**29,000**	<200	**23,800**	**1,450**	**1,060**	**4,790**	<200	<200	**7,620**	<800	**28,800**	<200	**4,540**	**5,700**	**12,100**	<200	**3,340**	ND
	15		76		**4,620**	**27,400**	**2,200**	**6,060**	**8,200**	**4,940**	<740	**24,200**	**5,760**	**6,700**	**209,000**	**12,100**	<740	**82,800**	**33,700**	**36,400**	<37,000	<740	**176,000**	<7,400	<740	**6,450**	**15,200**	<200	<200	<200	**1,970**	**202**	<200	**730**	<200	<200	**260**	<800	**512**	<200	<200	<200	<200	<200	<200	ND
	20		71		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		66		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		61		**1,270**	**8,300**	**718**	**330**	**1,620**	**990**	**174**	**2,260**	**830**	**1,410**	**29,700**	**1,740**	<50	**10,100**	**1,600**	**81.5**	**4,900**	<50	**3,210**	<500	<50	**5,140**	**20,500**	<200	<200	<200	**2,390**	<200	<200	**1,380**	<200	<200	**262**	<800	**416**	<200	<200	<200	<200	<200	<200	ND
	35		56		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	40		51		**1,890**	**2,850**	**240**	**160**	**1,110**	**622**	**174**	**1,290**	**450**	**1,060**	**46,700**	**1,200**	<112	**5,990**	**2,100**	<112	<5600	<112	**1,750**	<1,120	<112	**3,300**	**7,040**	<200	<200	<200	**612**	<200	<200	<200	<200	<200	<200	<800	<200	<200	<200	<200	<200	<200	<200	--
SB10	5	85	80	6/20/2018	<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		75		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		70		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		65		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB11	5	83	78	6/19/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		73		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		68		--	--	--	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		63		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		58		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		53		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB12	5	78	73		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		68		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		63		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		58		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		53		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB13	5	62	57	6/20/2018	**11.4**	<5	<10	**270**	**9.84**	**6.67**	<4	**166**	**11.2**	**5.07**	<4	**36.7**	<4	**250**	**85.1**	**7.79**	**650**	<4	**510**	<40	**160**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**884**	--
	10		52		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		47		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB14	5	61	56		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		51		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		46		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB15	5	86	81	6/21/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		76		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		71		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		66		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		61		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		56		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		51		**2.66**	<5	<10	**22.2**	<1	<1	<1	**2.93**	<1	<1	**9.20**	<1	<1	**12.9**	**4.55**	**3.47**	<50	<1	**27.9**	<10	**11.8**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	--
SB16	5	93	88		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		83		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		78		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		73		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		68		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**80.6**	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		63		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	--
SB17	5	90	85		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		80		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		75		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		70		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		65		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		60		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	**7.63**	<1	<1	**2.59**	<1	<1	<50	**2.18**	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		55		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	40		50		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	**14.8**	<1	<1	**8.98**	**2.09**	<1	<50	**3.26**	<2	<10	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	--
SB18	5	96	91		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<10	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		86		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		81		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		76		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB19	5	89	84		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	--
	10		79		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		74		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		69		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		64		<0.2	<5	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		59		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		54		<0.2	<5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50	<1	<2	<2	<1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	--
RWQCB SSLs (<20 above groundwater)					100	100	1,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RWQCB SSLs (20-150 feet above groundwater)					500	1,000	10,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DTSC-Recommended SL (Commercial/Industrial)					--	--	--	460	18,000,000	12,000,000	12,000,000	25,000	9,900,000	--	17,000	24,000,000	110,000	1,800,000	1,500,000	5,300,000	--	150	11,000	190,000,000	210,000	17,000	3,000,000	41,000,000	16,000,000	--	--	230,000,000	30,000,000	30,000,000	23,000,000	160,000	21,000	3,300,000,000	2,100,000	21,000	210,000	2,100	21,000	2,100	--	--

Notes:

-- = Not Analyzed, Not Applicable, or Not Calculated

ND = Not detected, all analytes

Gray Highlight = Concentration of analyte is above screening limit

* Only analytes detected are listed, refer to analytical report for full list.

RWQCB SSLs = Los Angeles Regional Water Quality Control Board Soil Screening Levels.

DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios (June 2018 Referencing U.S. Environmental Protection Agency Regional Screening Level [RSL] Summary Table - May 2018).

"J" Indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantitation limit (PQL).

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR METALS AND PESTICIDES IN SOIL
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)																	OCPs (EPA Method 8081A)										
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead (STLC/TCLP)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Hexavlent Chromium	Chlordane (total)	Chlordane (alpha)	Chlordane (gamma)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Heptachlor	Heptachlor Epoxide	Betta-BHC	Toxaphene
			milligrams per kilogram (mg/kg), equivalent to parts per million																		micrograms per kilogram (ug/kg), equivalent to parts per billion										
T1	9	5/29/2018	<2	<2	**90.7**	<1	<1	**26.6**	**7.20**	**22.6**	**165 (9.04 /0.10)**	<0.05	<2	**16.4**	<2	<1	<2	**30.3**	**51.5**	--	--	--	--	--	--	--	--	--	--	--	--	--
	19.5		<2	**2.91**	**51.5**	<1	<1	**14.4**	**4.66**	**8.39**	**4.78**	<0.05	<2	**6.41**	<2	<1	<2	**21.8**	**15.5**	--	--	--	--	--	--	--	--	--	--	--	--	--
T2	14		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T3	0.5		<2	<2	**69.6**	<1	<1	**176**	**18.2**	**106**	**903 (33.2** / <0.1)	<0.05	<2	**52.0**	<2	<1	<2	**124**	**327**	**3.21**	<2	<2	<2	**27.2**	<2	**126**	<2	<2	<2	<2	<2
	1.5		<2	<2	**64.2**	<1	<1	**10.5**	**4.77**	**8.76**	**2.55**	<0.05	<2	**5.85**	<2	<1	<2	**14.4**	**15.2**	--	--	--	--	--	--	--	--	--	--	--	--	--
T4	8.5		<2	<2	**76.8**	<1	<1	**11.3**	**6.67**	**16.7**	**14.6**	<0.05	<2	**10.2**	<2	<1	<2	**23.6**	**41.1**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	14.5		<2	**6.09**	**163**	<1	<1	**20.6**	**10.7**	**25.7**	**5.73**	<0.05	<2	**19.8**	<2	<1	<2	**41.3**	**43.2**	--	--	--	--	--	--	--	--	--	--	--	--	--
T5	7		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T6	0.5		<2	<2	**31.4**	<1	<1	**183**	**5.57**	**28.9**	**181 (4.75/0.44)**	<0.05	<2	**17.6**	<2	<1	<2	**27.0**	**177**	**3.51**	<2	<2	<2	<2	**9.82**	**21.5**	**72.5**	<2	**61.0**	**11.1**	<2	<2
B4	10		--	--	--	--	(S /T)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B7	30	5/30/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B8	1-2		<2	<2	**38.3**	<1	<1	**41.2**	**5.42**	**27.5**	**126 (**<0.02/**0.65)**	<0.05	<2	**15.7**	<2	<1	<2	**26.5**	**42.1**	--	--	--	--	--	--	--	--	--	--	--	--	--
B9	4		<2	<2	**101**	<1	<1	**18.7**	**11.2**	**24.7**	**7.09**	<0.05	<2	**17.0**	<2	<1	<2	**40.4**	**55.1**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	16		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OCP1	surface		<2	<2	**28.3**	<1	<1	**8.85**	**3.94**	**11.9**	<2	<0.05	<2	**6.26**	<2	<1	<2	**12.1**	**38.1**	--	**2.37**	**1.20J**	**1.17J**	**18.9**	**386**	**151**	<2	<2	<2	<2	**719**
OCP2	surface		<2	<2	**22.9**	<1	<1	**8.59**	**4.10**	**11.2**	**16.3**	<0.05	<2	**5.79**	<2	<1	<2	**11.9**	**43.7**	--	<2	<2	<2	**7.22**	**86.3**	**61.1**	<2	<2	<2	**1.07J**	**471**
OCP3	surface		<2	<2	**41.3**	<1	<1	**10.5**	**4.11**	**15.8**	**16.3**	<0.05	<2	**6.53**	<2	<1	<2	**15.8**	**64.9**	--	**2.32**	**1.00J**	**1.32J**	**10.4**	**160**	**57.0**	<2	<2	<2	**1.47J**	**161J**
OCP4	surface		<2	<2	**32.9**	<1	<1	**8.39**	**3.98**	**15.3**	**18.8**	<0.05	<2	**6.23**	<2	<1	<2	**13.2**	**40.9**	--	**1.17J**	<2	<2	**13.6**	**328**	**83.4**	<2	<2	<2	<2	**250**
B10	2	5/31/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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B11	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B13	5		<2	<2	**53.5**	<1	<1	**10.0**	**4.92**	**9.54**	**2.75**	<0.05	<2	**5.90**	<2	<1	<2	**15.6**	**15.3**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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B15	5		<2	<2	**54.0**	<1	<1	**9.87**	**4.65**	**10.3**	**2.42**	<0.05	<2	**5.59**	<2	<1	<2	**14.7**	**14.7**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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B19	5		<2	<2	**25.8**	<1	<1	**5.25**	**2.22**	**5.91**	<2	<0.05	<2	**2.86**	<2	<1	<2	**7.38**	**8.56**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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SB1	5	6/20/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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SB2	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		<2	<2	**275**	<1	<1	**169**	**5.96**	**80.2**	**392 (4.69/**<0.02)	<0.05	<2	**47.4**	<2	<1	<2	**74.3**	**217**	**0.162 J**	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	5	6/19/2018	<2	<2	**738**	<1	<1	**241**	**6.49**	**19.3**	**205 (4.74/**<0.02)	<0.05	<2	**11.3**	<2	<1	<2	**114**	**33.3**	**0.151 J**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	40		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB4	5		<2	<2	**156**	<1	<1	**9.46**	<2	**14.4**	**84.1**	<0.05	<2	**4.45**	<2	<1	<2	<2	**32.9**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		<2	**6.85**	<2	<1	<1	<1	**4.75**	<2	**195 (7.24 / 0.11)**	<0.05	**26.3**	**21.6**	<2	<1	<2	<2	**154**	**0.185 J**	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	5		<2	**15.7**	**134**	<1	<1	**37.2**	<2	**59.6**	**158 (5.87/0.47)**	<0.05	<2	**10.3**	<2	<1	<2	**23.6**	**27.8**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		<2	<2	**72.6**	<1	<1	**11.0**	**2.06**	**19.1**	**135 (2.14 / 0.04)**	<0.05	<2	**4.70**	<2	<1	<2	**18.5**	**22.8**	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR METALS AND PESTICIDES IN SOIL
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)																	OCPs (EPA Method 8081A)										
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead (STLC/TCLP)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Hexavlent Chromium	Chlordane (total)	Chlordane (alpha)	Chlordane (gamma)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Heptachlor	Heptachlor Epoxide	Betta-BHC	Toxaphene
			milligrams per kilogram (mg/kg), equivalent to parts per million																		micrograms per kilogram (ug/kg), equivalent to parts per billion										
SB7	5	6/20/2018	<2	**3.56**	**300**	<1	<1	**70.9**	**6.06**	**68.9**	**344 (16.1/0.28)**	<0.05	<2	**46.0**	<2	<1	<2	**66.8**	**198**	--	--	--	--	--	--	--	--	--	--	--	--
	10		<2	<2	**179**	<1	<1	**5.09**	<2	**8.77**	**24.3**	<0.05	<2	**21.8**	<2	<1	<2	**28.5**	**38.9**	--	--	--	--	--	--	--	--	--	--	--	--
	15		<2	**9.15**	**152**	<1	<1	**28.0**	**19.0**	**538**	**41.8**	<0.05	<2	**198**	<2	<1	<2	**7.66**	**409**	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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SB8	5	6/25/2018	<2	<2	**77.3**	<1	<1	**21.5**	**3.69**	**46.3**	**418 (16.5/0.49)**	<0.05	<2	**14.3**	<2	<1	<2	**26.4**	**95.8**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		<2	<2	**47.6**	<1	<1	**7.09**	**3.40**	**8.79**	**2.89** / <0.01 / <0.01	<0.05	<2	**6.89**	<2	<1	<2	**12.4**	**16.3**	<0.2	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	35		<2	**4.02**	**25.7**	<1	<1	**11.7**	**3.72**	**4.40**	<2 / <0.01 / <0.01	<0.05	<2	**10.1**	<2	<1	<2	**18.8**	**20.1**	**0.271**	--	--	--	--	--	--	--	--	--	--	--
	40		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	45		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9	5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	15		<2	**23.9**	**184**	<1	<1	**28.5**	<2	**129**	**840 / 3.23** / <0.01	<0.05	<2	**27.2**	<2	<1	<2	**19.9**	**8.66**	**1.12**	--	--	--	--	--	--	--	--	--	--	--
	20		<2	<2	**21.5**	<1	<1	**7.49**	<2	**2.90**	<2 / <0.01 / <0.01	<0.05	<2	**4.48**	<2	<1	<2	**68.9**	**6.63**	<0.2	--	--	--	--	--	--	--	--	--	--	--
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SB10	5	6/20/2018	<2	<2	**58.1**	<1	<1	**9.50**	**2.80**	**9.88**	**2.04**	<0.05	<2	**4.66**	<2	<1	<2	**14.5**	**13.7**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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SB11	5	6/19/2018	<2	<2	**48.9**	<1	<1	**201**	**8.16**	**23.6**	**82.0**	<0.05	<2	**24.7**	<2	<1	<2	**21.1**	**121**	**3.54**	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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SB12	5		<2	<2	**42.3**	<1	<1	**20.8**	**4.15**	**6.61**	<2	<0.05	<2	**10.4**	<2	<1	<2	**22.3**	**16.6**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB13	5	6/20/2018	<2	<2	**175**	<1	<1	**20.3**	**10.7**	**23.8**	**9.28**	<0.05	<2	**16.8**	<2	<1	<2	**45.3**	**41.5**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		<2	<2	**8.68**	<1	<1	**6.28**	<2	**2.17**	<2	<0.05	<2	**3.60**	<2	<1	<2	**7.88**	**5.47**	--	--	--	--	--	--	--	--	--	--	--	--
SB14	5		<2	**4.59**	**29.9**	<1	<1	**17.8**	**4.33**	**6.92**	<2	<0.05	<2	**14.8**	<2	<1	<2	**30.3**	**19.5**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB15	5		<2	<2	**54.7**	<1	<1	**10.2**	**3.91**	**7.31**	<2	<0.05	<2	**5.89**	<2	<1	<2	**14.9**	**11.7**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
	10		<2	<2	**18.1**	<1	<1	**10.0**	**2.28**	**4.58**	<2	<0.05	<2	**4.36**	<2	<1	<2	**13.4**	**5.09**	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		<2	<2	**10.7**	<1	<1	**8.23**	**2.08**	**3.11**	<2	<0.05	<2	**5.68**	<2	<1	<2	**10.7**	**8.86**	--	--	--	--	--	--	--	--	--	--	--	--
SB16	5	6/21/2018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB17	5		<2	<2	**31.4**	<1	<1	**9.50**	**3.24**	**5.44**	<2	<0.05	<2	**4.82**	<2	<1	<2	**13.2**	**7.32**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	40		<2	<2	**12.6**	<1	<1	**8.61**	**2.42**	**3.29**	<2	<0.05	<2	**5.92**	<2	<1	<2	**10.0**	**8.81**	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR METALS AND PESTICIDES IN SOIL
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)																	OCPs (EPA Method 8081A)										
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead (STLC/TCLP)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Hexavlent Chromium	Chlordane (total)	Chlordane (alpha)	Chlordane (gamma)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Heptachlor	Heptachlor Epoxide	Betta-BHC	Toxaphene
			milligrams per kilogram (mg/kg), equivalent to parts per million																		micrograms per kilogram (ug/kg), equivalent to parts per billion										
SB18	5	6/21/2018	<2	<2	**20.0**	<1	<1	**7.88**	**2.06**	**4.40**	<2	<0.05	<2	**3.63**	<2	<1.0	<2	**9.60**	<5	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		<2	<2	**21.3**	<1	<1	**17.7**	**3.22**	**4.32**	<2	<0.05	<2	**8.21**	<2	<1.0	<2	**13.9**	**7.56**	--	--	--	--	--	--	--	--	--	--	--	--
SB19	5		<2	<2	**44.5**	<1	<1	**10.2**	<2	**6.44**	<2	<0.05	<2	**5.60**	<2	<1	<2	**12.6**	**8.54**	--	--	--	--	--	--	--	--	--	--	--	--
	10		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Surface 1			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	<2	<2	<2	**10.5J**	<2	<2	<2	<2	<2	<170
Surface 2			<2	<2	**36.1**	<1	<1	**17.5**	<2	**10.4**	**19.9**	<0.05	<2	**5.33**	<2	<1	<2	**11.7**	**64.3**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 3			<2	<2	**42.7**	<1	<1	**8.22**	**2.19**	**27.0**	**20.8**	<0.05	<2	**8.67**	<2	<1	<2	**14.7**	**51.6**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
Surface 4			<2	<2	**27.8**	<1	<1	**17.4**	**2.51**	**8.80**	**38.2**	<0.05	<2	**6.75**	<2	<1	<2	**16.4**	**24.1**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 5			<2	**23.4**	**87.5**	<1	<1	**138**	**10.8**	**177**	**289 (6.12/0.44)**	<0.05	**36.8**	**123**	<2	<1	<2	**107**	**211**	**0.159 J**	--	--	--	--	--	--	--	--	--	--	--
Surface 6			<2	<2	**52.7**	<1	<1	**93.5**	**3.92**	**941**	**115**	<0.05	<2	**20.2**	<2	<1	<2	**42.3**	**235**	--	<2	<2	<2	<2	**60.2**	<2	<2	<2	<2	<2	<170
Surface 7			<2	**10.5**	**57.5**	<1	<1	**72.6**	**6.94**	**35.5**	**83.1**	<0.05	<2	**26.4**	<2	<1	<2	**40.0**	**101**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 8	--	6/18/2018	<2	**47.5**	**46.7**	<1	<1	**104**	**19.1**	**109**	**620 (7.36/0.07)**	<0.05	**12.8**	**54.9**	<2	<1	<2	**21.0**	**195**	<0.2	**18.1 J**	<2	<2	**18.1J**	**141**	**170**	<2	<2	<2	<2	<170
Surface 9			<2	<2	**13.1**	<1	<1	**29.6**	**2.56**	**22.8**	**56.4**	<0.05	<2	**18.4**	<2	<1	<2	**13.3**	**67.6**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 10			<2	**8.47**	**128**	<1	<1	**56.9**	**5.19**	**52.2**	**293 (7.92/0.13)**	<0.05	**9.95**	**38.0**	<2	<1	<2	**25.5**	**43.6**	--	<2	<2	<2	<2	**17.8J**	**39.4**	<2	<2	<2	<2	<170
Surface 11			<2	<2	**92.9**	<1	<1	**24.3**	**2.42**	**38.4**	**263 (15.9/0.19)**	<0.05	<2	**15.3**	<2	<1	<2	**23.9**	**132**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 12			<2	<2	**89.5**	<1	<1	**118**	**10.4**	**102**	**1115 (37.8/0.29)**	<0.05	<2	**68.8**	<2	<1	<2	**99.8**	**301**	<0.2	<2	<2	<2	<2	**40.7**	**21.4**	<2	<2	<2	<2	<170
Surface 13			<2	<2	**102**	<1	<1	**71.6**	**4.99**	**71.9**	**272 (10.4/0.08)**	<0.05	**14.2**	**23.6**	<2	<1	<2	**41.8**	**143**	--	<2	<2	<2	<2	<2	**10.5J**	<2	<2	<2	<2	<170
Surface 14			<2	<2	**104**	<1	<1	**27.5**	**7.30**	**25.8**	**43.8**	<0.05	<2	**26.5**	<2	<1	<2	**39.2**	**57.3**	--	--	--	--	--	--	--	--	--	--	--	--
Surface 15			<2	<2	**129**	<1	<1	**75.1**	**3.93**	**45.4**	**900 (29.8/0.50)**	<0.05	<2	**24.2**	<2	<1	<2	**45.8**	**84.7**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
Surface 16			<2	<2	**41.2**	<1	<1	**19.5**	**2.37**	**24.9**	**225 (13.4/0.16)**	<0.05	<2	**9.56**	<2	<1	<2	**20.3**	**95.9**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 1			<2	<2	**195**	<1	<1	**18.6**	**11.2**	**27.7**	**33.0**	<0.05	<2	**16.8**	<2	<1	<2	**47.1**	**58.1**	--	<2	<2	<2	<2	<2	**3.8**	<2	<2	<2	<2	<170
Surface Comp 2			<2	<2	**143**	<1	<1	**12.7**	**7.96**	**18.7**	**7.10**	<0.05	<2	**11.8**	<2	<1	<2	**36.9**	**37.3**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 3			<2	<2	**118**	<1	<1	**11.7**	**7.30**	**25.5**	**11.1**	<0.05	<2	**11.6**	<2	<1	<2	**31.6**	**39.0**	--	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<170
Surface Comp 4			<2	<2	**177**	<1	<1	**16.7**	**10.7**	**26.8**	**19.8**	<0.05	<2	**17.2**	<2	<1	<2	**45.5**	**76.2**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 5			<2	<2	**151**	<1	<1	**15.6**	**10.2**	**22.2**	**37.9**	<0.05	<2	**14.9**	<2	<1	<2	**39.0**	**56.9**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 6	--	6/19/2018	<2	<2	**184**	<1	<1	**18.7**	**11.3**	**27.3**	**12.4**	<0.05	<2	**17.0**	<2	<1	<2	**48.7**	**57.0**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 7			<2	<2	**109**	<1	<1	**13.8**	**6.95**	**21.8**	**13.5**	<0.05	<2	**13.5**	<2	<1	<2	**29.9**	**48.6**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 8			<2	<2	**195**	<1	<1	**16.4**	**11.1**	**26.0**	**16.1**	<0.05	<2	**16.3**	<2	<1	<2	**43.9**	**46.6**	--	--	--	--	--	--	--	--	--	--	--	--
Surface Comp 9			<2	<2	**92.5**	<1	<1	**11.9**	**6.16**	**16.4**	**19.3**	<0.05	<2	**9.96**	<2	<1	<2	**27.3**	**41.1**	--	<2	<2	<2	<2	<2	**3.63**	<2	<2	<2	<2	<170
Surface Comp 10			<2	<2	**43.0**	<1	<1	**14.9**	**2.51**	**14.6**	**76.0**	<0.05	<2	**8.04**	<2	<1	<2	**18.2**	**38.5**	--	**1.29J**	<2	<2	**2.19**	**6.25**	**16.2**	**1.11J**	<2	<2	<2	<170
Surface Comp 11			<2	<2	**100**	<1	<1	**33.9**	**5.79**	**28.3**	**62.4**	<0.05	<2	**14.4**	<2	<1	<2	**46.1**	**56.0**	--	--	--	--	--	--	--	--	--	--	--	--
Typical Range for CA Soils*			0.15-1.95	0.6-11	133-1,400	0.25-2.7	0.05-1.7	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-0.9	0.1-9.6	9-509	0.015-0.430	0.1-8.3	0.17-1.1	39-288	88-236	--	--	--	--	--	--	--	--	--	--	--	--
DTSC-Recommended SL (Commercial/Industrial)			470	12 [β]	220,000	210	7.3	170,000	350	47,000	320	4.4	5,800	3,100	5,800	1,500	12	1,000	350,000	6.3	7,700	--	--	9,600	9,300	8,500	140	630	330	--	2,100
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	500	2,500	--	--	1.0	1.0	1.0	1.0	4.7	4.7	--	5.0
STLC**			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250	5	250	--	--	0.1	0.1	0.1	0.1	0.47	0.47	--	0.5
TCLP**			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--	--	30	--	--	--	--	--	--	0.008	0.008	--	0.5

Notes:
bgs = below ground surface
* Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Fampton, J.A., and Wright, H., 1996, *Background Concentrations of Trace and Major Elements in California Soils,* Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California.
** - Values in milligrams per liter (mg/L)
Gray Highlight = Concentration of analyte is above screening limit
DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios June 2018 Referencing U.S. Environmental Protection Agency Regional Screening Level [RSL] Summary Table - May 2018).
[β] DTSC-recommended SL for arsenic is based on acceptable levels for school sites up to 12 mg/kg.
TTLC = Total Threshold Limit Concentration as identified in Title 22 of the California Code of Regulations. Wastes with concentrations above this value are considered hazardous for the purposes of disposal under California regulations.
STLC = Soluble Threshold Limit Concentration, in mg/L, as identified in Title 22 of the California Code of Regulations. A concentration of ten times the STLC is sometimes used as a trigger to conduct further analysis (i.e., the soluble analysis) of a sample to determine disposal requirements. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under California regulations.
TCLP = Toxicity Characteristic Leaching Procedure concentration, in mg/L, as identified in the Code of Federal Regulations. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under federal regulations.
"J" Indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantitation limit (PQL).
-- = Not Analyzed or Not Applicable

TABLE 3
SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS IN BUILDING MATERIALS
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Sample ID	Sample Description	Sample Date	EPA 600/R-93-116 Method Using Polarized Light Microscopy	
			Chrysotile	Amosite
			Percent	
1	Insulation	5/29/2018	ND	**30**
2	Gasket Wrap		**15**	ND
3	Miscellaneous Wrap		**70**	ND
4	Woven Insulation		**60**	ND
5	Tar Paper		**50**	ND
6	Orange Brick		ND	ND
7	Yellow Brick		ND	ND

Notes:
ND = None Detected
Lab report indicating samples collected 6/1/18 in error.
All samples collected from surface and shallow soils in the area of Trench T2.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS FOR ASBESTOS IN SOIL
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Sample ID	Sample Depth (feet bgs)	Sample Date	ASTM D7521	
			Chrysotile	Amosite
			Percent	
Surface 3	Surface	6/28/2018	**0.25**	ND
Surface 6			ND	**0.46**
Surface 11			ND	**3.0**
Surface 12			**5.0**	ND
Surface 13			**0.58**	ND
Surface 16			**0.46**	ND
SB4	5-10		**5.0**	ND
SB6			**3.0**	ND

Notes:
ND = None Detected

TABLE 5
SUMMARY OF ANALYTICAL RESULTS FOR CATALYST - TPH AND SVOCS
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sampe Date	Total Petroleum Hydrocarbons (EPA Method 8015M)		Semi-Volatile Organic Compounds (EPA Method 8270C)*																
		Diesel Range (C_{13}-C_{22})	Heavy Hydrocarbon Range (C_{23}-C_{40})	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-C,D)Pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	2-Methlynaphthalene
		milligrams per kilogram (mg/kg), equivalent to parts per million																		
Catalyst-1	7/13/2018	<1.0	**10.9**	<0.010	<0.010	<0.010	<0.010	**0.0100J**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.0143J**	<0.010	**0.0211**
Catalyst-2		**4,770**	**5,430**	**0.627**	**0.572**	**0.316**	<0.020	**0.816**	<0.020	<0.020	<0.020	<0.020	**0.0220J**	<0.020	**0.0731**	**0.0214J**	**0.0438**	**0.518**	**0.747**	**0.110**
Catalyst-3		<1.0	**69.0**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.0133J**	**0.0354**	**0.0133J**	**0.0989**
RWQCB SSLs (<20 above groundwater)		100	1,000	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--
RWQCB SSLs (20-150 feet above groundwater)		1,000	10,000	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--
DTSC-Recommended SL (Commercial/Industrial)		--	--	21,000	2,100	21,000	210,000	2,100,000	2,100	21,000	45,000,000	--	230,000,000	--	30,000,000	30,000,000	17,000	--	23,000,000	3,000,000

Notes:

-- = Not Analyzed, Not Applicable, or Not Calculated.
Gray Highlight = Concentration of analyte is above screening limit.
* Only analytes detected are listed, refer to analytical report for full list.
RWQCB SSLs = Los Angeles Regional Water Quality Control Board Soil Screening Levels.
DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios (June 2018 Referencing U.S. Environmental Protection Agency Regional Screening Level [RSL] Summary Table - May 2018).
"J" Indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantitation limit (PQL).

TABLE 6
SUMMARY OF ANALYTICAL RESULTS FOR CATALYST - METALS
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Boring ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals (EPA Method 6010B, except Mercury by EPA Method 7471A)															
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			milligrams per kilogram (mg/kg), equivalent to parts per million																
Catalyst-1	0	7/13/2018	<1	<1	**29.9**	<1.3	<1.3	**6.99**	<2.5	**67.3**	**58.2**	<0.1	<2.5	**14.2**	<1	**6.61**	<0.7	**10.4**	**73.5**
Catalyst-2	0		<1	<1	**220**	<1.3	<1.3	**10.3**	<2.5	**169**	**97.4**	**0.597**	<2.5	**14.7**	<1	<2.5	<0.7	**24.8**	**119**
Catalyst-3	0		<1	<1	**35.9**	<1.3	<1.3	**6.06**	<2.5	**122**	**5.15**	<0.1	<2.5	**5.10**	<1	<2.5	<0.7	<2.5	**54.6**
Typical Range for CA Soils*			0.15-1.95	0.6-11	133-1,400	0.25-2.7	0.05-1.7	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-0.9	0.1-9.6	9-509	0.015-0.430	0.1-8.3	0.17-1.1	39-288	88-236
DTSC-Recommended SL (Commercial/Industrial)			470	12 [β]	220,000	210	7.3	170,000	350	47,000	320	4.4	5,800	3,100	5,800	1,500	12	1,000	350,000
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC**			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP**			--	5	100	--	1	5	--	--	5	0.2	--	--	1	5	--	--	--

Notes:
bgs = below ground surface
* Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Fampton, J.A., and Wright, H., 1996, *Background Concentrations of Trace and Major Elements in California Soils,* Kearney Foundation of Soil Science Special Report, Division of Agriculture and Natural Resources, University of California.
** - Values in milligrams per liter (mg/L)
Gray Highlight = Concentration of analyte is above screening limit
DTSC-Recommended SL = Screening Level as recommended in California Department of Toxic Substances Control (DTSC), Office of Human and Ecological Risk (HERO), Human Health Risk Assessment (HHRA) Note No. 3 - Residential and industrial/commercial land use scenarios June 2018 Referencing U.S. Environmental Protection Agency Regional Screening Level [RSL] Summary Table - May 2018).
[β] DTSC-recommended SL for arsenic is based on acceptable levels for school sites up to 12 mg/kg.
TTLC = Total Threshold Limit Concentration as identified in Title 22 of the California Code of Regulations. Wastes with concentrations above this value are considered hazardous for the purposes of disposal under California regulations.
STLC = Soluble Threshold Limit Concentration, in mg/L, as identified in Title 22 of the California Code of Regulations. A concentration of ten times the STLC is sometimes used as a trigger to conduct further analysis (i.e., the soluble analysis) of a sample to determine disposal requirements. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under California regulations.
TCLP = Toxicity Characteristic Leaching Procedure concentration, in mg/L, as identified in the Code of Federal Regulations. Wastes with soluble concentrations above this value are considered hazardous for the purposes of disposal under federal regulations.
"J" Indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantitation limit (PQL).
-- = Not Analyzed or Not Applicable

TABLE 7
COMPARISON OF LAB AND XRF RESULTS FOR LEAD IN SURFACE SAMPLES
NORTH POSSE, 3041 DEL AMO BOULEVARD, TORRANCE, CALIFORNIA

Sample ID	Lab Result	XRF Reading	Lab/XRF Ratio
	Lead Concentration (Parts Per Million)		
Surface 1	NA	34	NA
Surface 2	19.9	33	0.60
Surface 3	20.8	31	0.67
Surface 4	38.2	50	0.76
Surface 5	289	244	1.18
Surface 6	115	73	1.58
Surface 7	83.1	140	0.59
Surface 8	620	142	4.37
Surface 9	56.4	60	0.94
Surface 10	293	301	0.97
Surface 11	263	398	0.66
Surface 12	1,115	1,297	0.86
Surface 13	272	184	1.48
Surface 14	43.8	63	0.70
Surface 15	900	869	1.04
Surface 16	225	266	0.85

NA = Not Applicable, sample was not analyzed for metals.

APPENDIX A

SOIL BORING LOGS

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB1

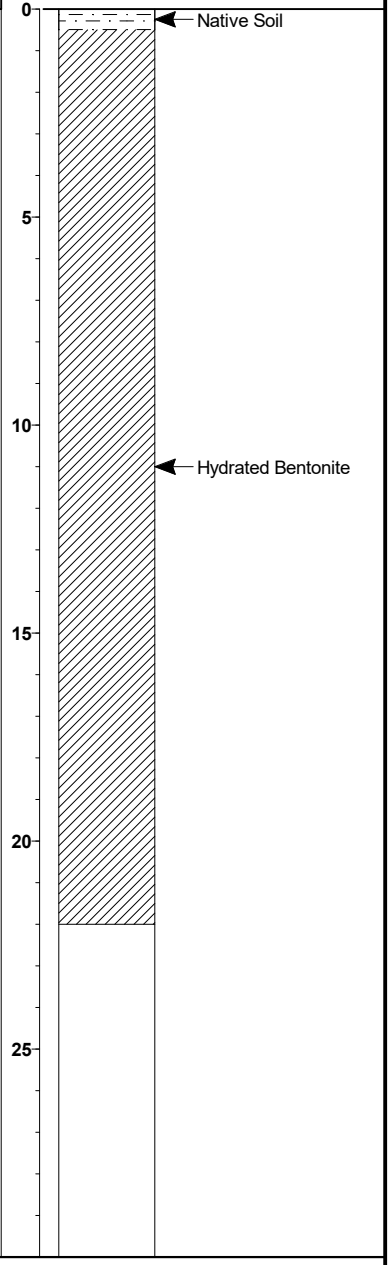
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB1-5		0.0	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
2								
3	10		SB1-10		0.0	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.
4								
5	15		SB1-15		0.0	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.
6	20		SB1-20		2.3	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.
								Refusal at 22 ft bgs.
7	25							
8								
9	30							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **22.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB2

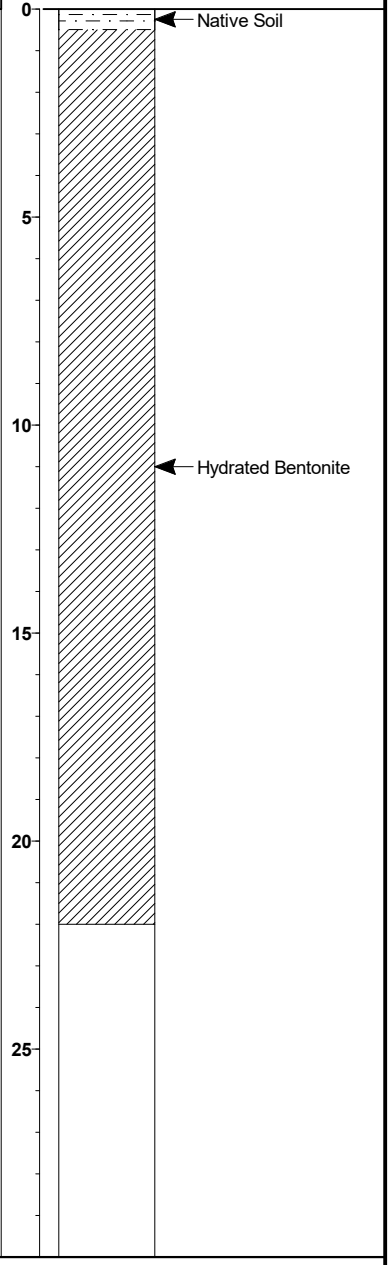
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB2-5		4.1	SM		Brown, Silty, Very Fine to Coarse Sand with Gravel, Slightly Moist.
2								
3	10		SB2-10		4.3	SW		Black, Gravelly Sand with Some Silt, Catalyst, Slightly Moist, Odor.
4								
5	15		SB2-15		6.3	SP		Gray, Very Fine to Fine Sand, Slightly Moist.
6	20		SB2-20		10.1	SP		Gray, Very Fine to Fine Sand, Slightly Moist.
7								Refusal at 22 ft bgs.
8	25							
9	30							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **22.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB3

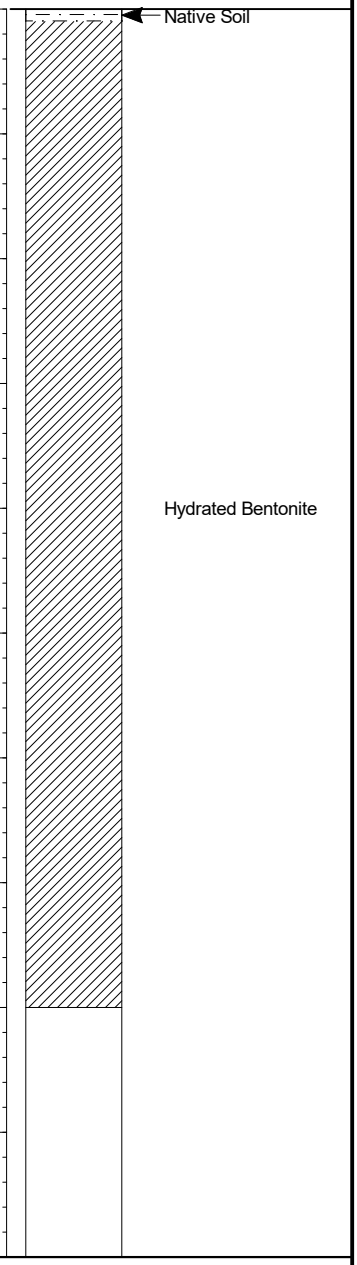
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	10		SB3-5		10.4	SM		Black, Very Fine Sand with Silt, Dry.
10	30		SB3-10		0	ML		Orangish Brown, Silt with Fine Sand, Slightly Moist.
15	50		SB3-15		2.7	ML		Orangish Brown, Silt with Fine Sand, Slightly Moist.
20	70		SB3-20		8.7	ML		Orangish Brown, Silt with Very Fine Sand, Slightly Moist, Strong Hydrocarbon Odor.
25	80		SB3-25		4.0	SP		Orangish Brown, Silt with Very Fine Sand, Slightly Moist, Strong Hydrocarbon Odor.
30	90		SB3-30		9.0	SP		Tan, Very Fine to Fine Sand, Slightly Moist, Hydrocarbon Odor.
35	110		SB3-35		45.0	SP		Tan, Very Fine to Fine Sand, Slightly Moist, Hydrocarbon Odor.
40	120		SB3-40		44.0	SP		Tan, Very Fine to Fine Sand, Slightly Moist, Hydrocarbon Odor.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Dual Tube**

Date Started: **6/19/18**
Date Ended: **6/19/18**
Total Depth: **40.0 feet**
Boring Diameter: **2.25-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

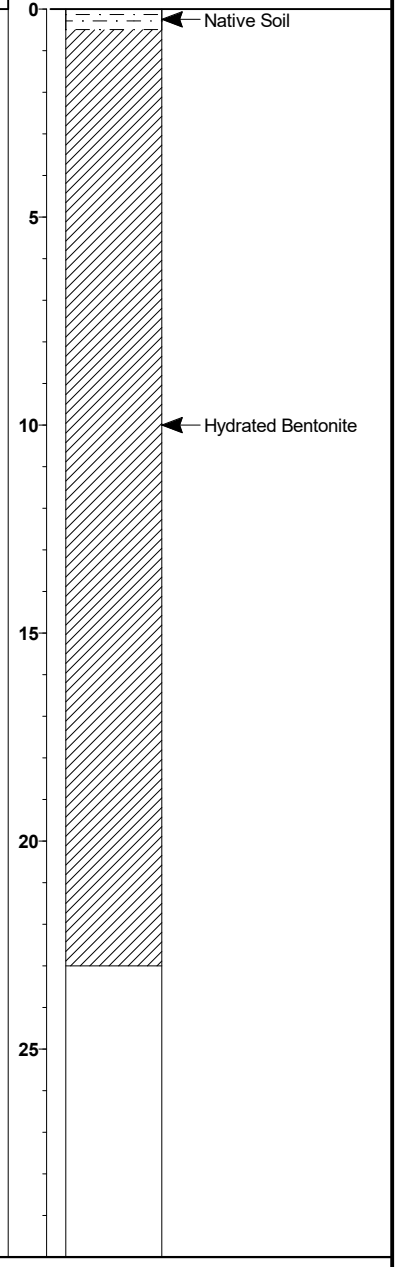
BORING NUMBER: SB4

North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB4-5		3.0	SM		Dark Gray, Silty, Very Fine Sand with Gravel, Slightly Moist.
2								
3	10		SB4-10		5.9	SM		Light Gray, Silty, Very Fine Sand with Gravel, Slightly Moist.
4								
5	15		SB4-15		3.8	SP		Orangish Brown, Very Fine to Fine Sand with Some Silt, Slighty Moist.
6	20		SB4-20		7.8	SP		Gray, Very Fine to Fine Sand, Slightly Moist, Odor.
7								Refusal at 23 ft bgs.
8	25							
9	30							



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/25/18**
Date Ended: **6/25/18**
Total Depth: **23.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB5

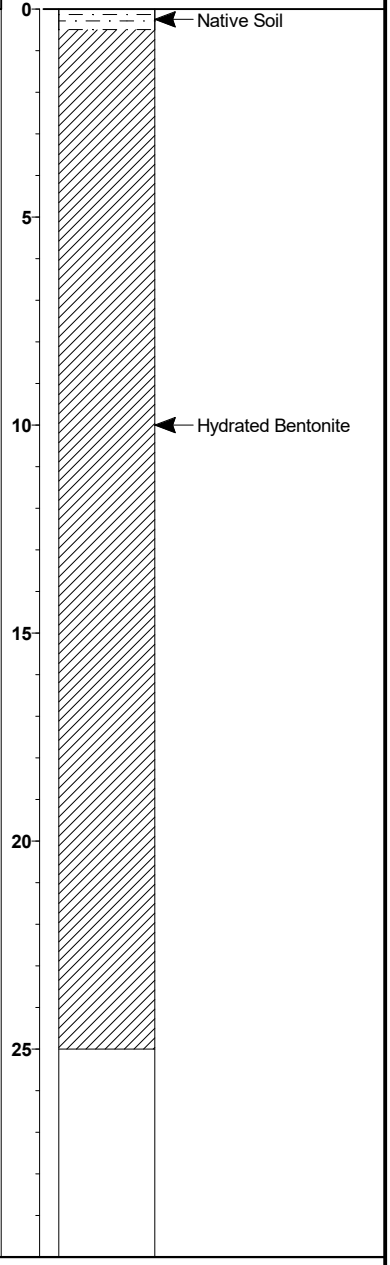
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	2		SB5-5		11.3	SM		Brown, Silty, Very Fine to Coarse, Sand with Gravel, Slightly Moist.
10	3		SB5-10		4.5	SW		Brown, Gravely, Very Fine to Coarse, Sand, Slightly Moist.
15	5		SB5-15		4.6	SW		Black, Sand with Some Silt and Gravel, Slightly Moist.
20	6		SB5-20		5.0	SM		Light Brown, Silty, Very Fine Sand, Slightly Moist.
25	8		SB5-25		4.9	SM		Tan, Silty, Very Fine to Fine Sand, Slightly Moist. Refusal at 25 ft bgs.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/25/18**
Date Ended: **6/25/18**
Total Depth: **25.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB6

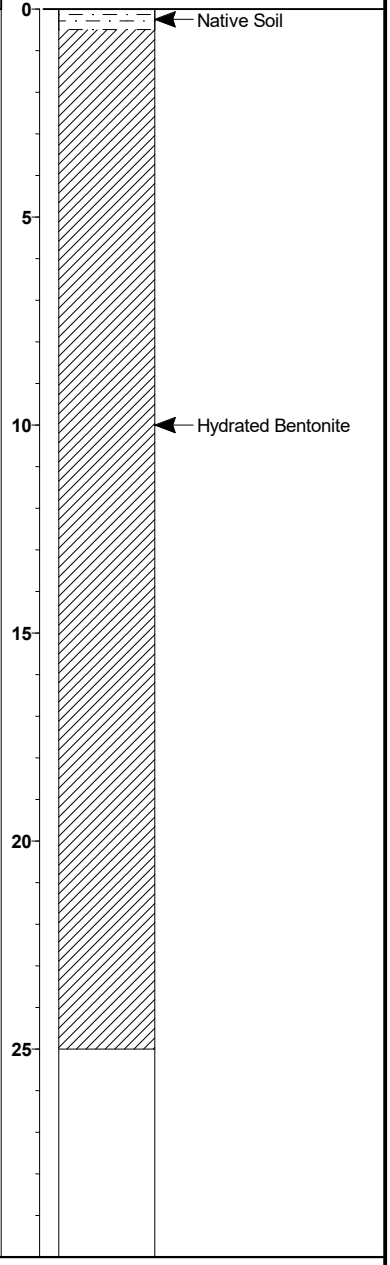
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	15		SB6-5		5.8	MH		Black, Clayey Silt with Some Sand and Gravel, Slightly Moist.
10	30		SB6-10		308.7	SW		Black, Gravelly, Very Fine to Coarse Sand, Slightly Moist, Odor.
15	45		SB6-15		8.3	SM		Brown, Silty, Very Fine to Fine Sand, Slightly Moist, Odor.
20	60		SB6-20		8.0	SP		Olive Gray, Very Fine to Fine Sand with Some Silt, Slightly Moist, Odor.
25	75		SB6-25		10.6	SP		Light Gray, Very Fine to Fine Sand, Slightly Moist.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/25/18**
Date Ended: **6/25/18**
Total Depth: **25.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

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Long Beach, California 90806-6816

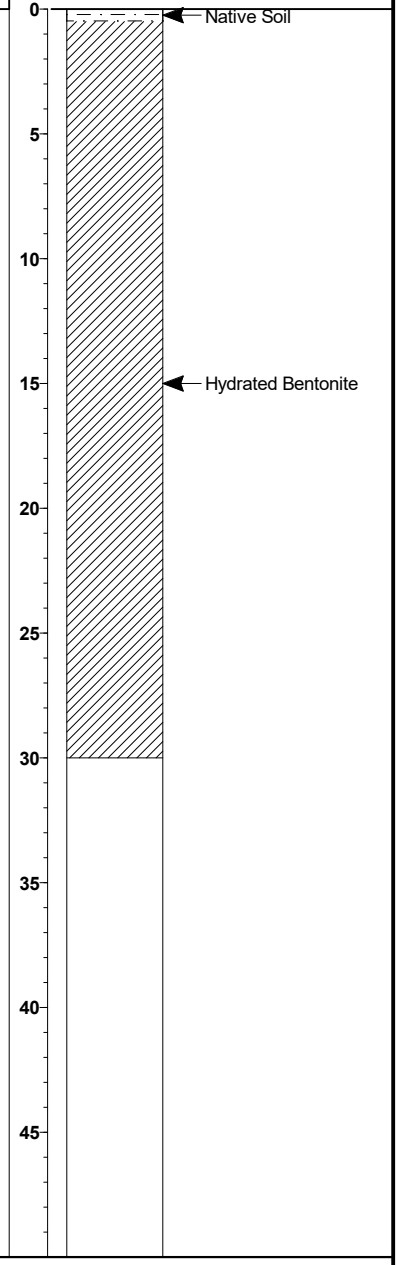
BORING NUMBER: SB7

North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB7-5		0.4	SW		Brown, Gravelly, Very Fine to Fine Sand, Slightly Moist.
2								
3	10		SB7-10		>5000	SP		Black, Silty, Very Fine to Fine Sand with Some Gravel, Slightly Moist, Strong Odor.
4								
5	15		SB7-15		>5000	SW		Black, Gravelly, Very Fine to Fine Sand, Catalyst, Slightly Moist, Strong Odor.
6	20		SB7-20		235	SP		Black, Silty Sand with Gravel, Slightly Moist, Strong Odor.
7								
8	25		SB7-25		117.7	SP		Gray, Very Fine to Fine Sand, Slightly Moist, Odor.
9	30		SB7-30		17.3	SP		Gray, Very Fine to Fine Sand, Slightly Moist, Slight Odor.
10	35							
11								
12	40							
13								
14	45							
15	50							



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **30.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

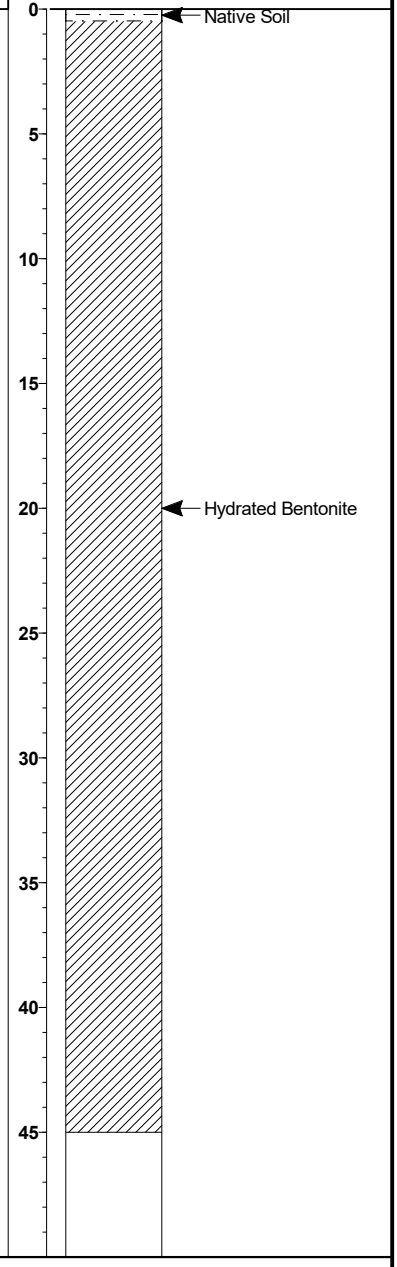
BORING NUMBER: SB8

North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB8-5		6.3	SM		Brown, Silty, Very Fine Sand, Slightly Moist.
2								
3	10		SB8-10		6.9	ML		Brown, Very Fine to Fine Sandy Silt, Slightly Moist.
4								
5	15		SB8-15		>5000	ML		Black, Very Fine to Fine Sandy Silt, Slightly Moist, Odor.
6	20		SB8-20		14.6	ML		Black, Silt with Some Sand and Sludge, Slightly Moist, Odor.
7								
8	25		SB8-25		10.3	ML		Dark Gray, Sandy Silty, Slightly Moist, Odor.
9	30		SB8-30		5.6	ML		Dark Gray, Sandy Silt, Slightly Moist, Odor.
10								
11	35		SB8-35		17.4	ML		Dark Gray, Sandy Silt, Slightly Moist, Odor.
12	40		SB8-40		6.1	SM		Dark Gray, Silty Sand, Slightly Moist, Odor.
13								
14	45		SB8-45		5.7	SM		Dark Gray, Silty Sand, Slightly Moist, Odor.
15	50							



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/25/18**
Date Ended: **6/25/18**
Total Depth: **45.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

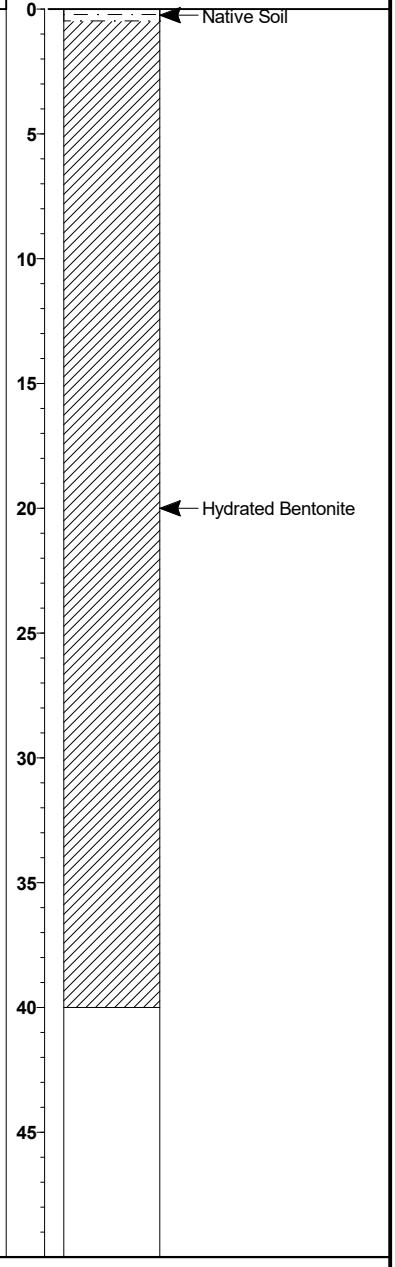
BORING NUMBER: SB9

North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB9-5		6.7	ML		Dark Brown, Silt with Some Very Fine Sand, Slightly Moist.
2								
3	10		SB9-10		>5000	ML		Black, Silt with Some Very Fine Sand, Slightly Moist, Strong Odor.
4								
5	15		SB9-15		>5000	ML		Black, Silt with Some Very Fine Sand, Free Product, Strong Odor.
6	20		SB9-20		>5000	SP		Black, Very Fine to Fine Sand with Trace Silt, Slightly Moist, Strong Odor.
7								
8	25		SB9-25		>5000	SP		Gray, Very Fine to Fine Sand with Trace Silt, Slightly Moist, Strong Odor.
9	30		SB9-30		>5000	SP		Gray, Very Fine to Fine Sand with Trace Silt, Slightly Moist, Strong Odor.
10								
11	35		SB9-35		>5000	SP		Gray, Very Fine to Fine Sand with Trace Silt, Slightly Moist, Strong Odor.
12	40		SB9-40		>5000	SP		Gray, Very Fine to Fine Sand with Trace Silt, Slightly Moist, Strong Odor.
13								
14	45							
15	50							



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/25/18**
Date Ended: **6/25/18**
Total Depth: **40.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB10

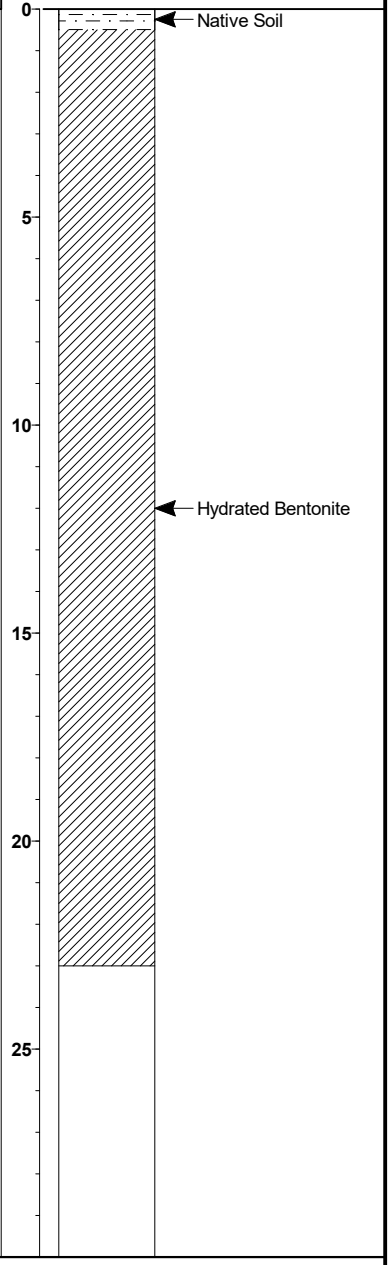
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	2		SB10-5		0.0	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
10	3		SB10-10		0.4	SM		Orangish Brown, Silty Sand, Slightly Moist.
15	4		SB10-15		1.9	ML		Orangish Brown, Sandy Silt, Slightly Moist.
20	6		SB10-20		2.2	SM		Orangish Brown, Silty Very Fine Sand, Slightly Moist.
	7							Refusal at 23 ft bgs.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **23.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB11

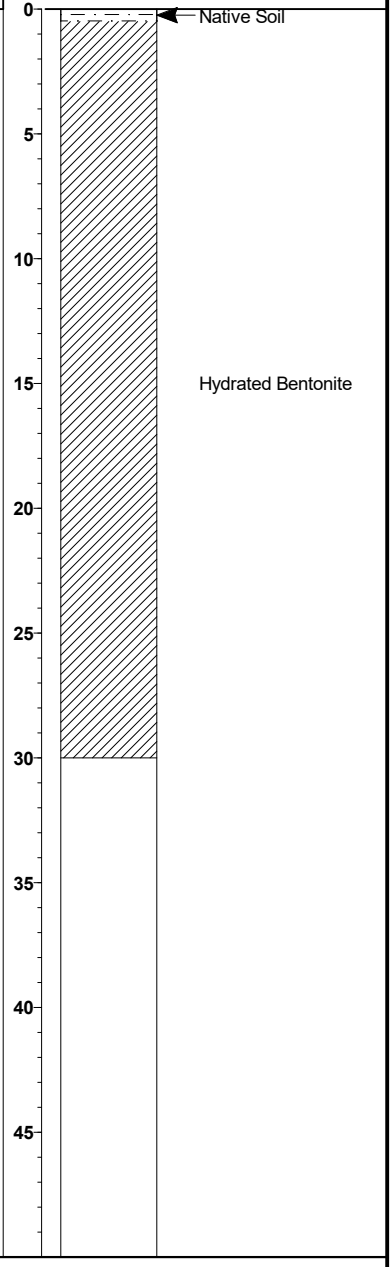
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	10		SB11-5		0.9	ML		Brown,Silt with Catalyst, Dry.
10	20		SB11-10		2.0	ML		Orangish Brown, Silt, Slightly Moist.
15	30		SB11-15		4.2	ML		Orangish Brown, Silt, Slightly Moist.
20	40		SB11-20		30.8	ML		Orangish Brown, Silt, Slightly Moist.
25	50		SB11-25		11.1	SP		Tan, Very Fine Sand, Slightly Moist.
30	60		SB11-30		1.2	SP		Tan, Very Fine Sand, Slightly Moist.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Dual Tube**

Date Started: **6/19/18**
Date Ended: **6/19/18**
Total Depth: **30.0 feet**
Boring Diameter: **2.25-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB12

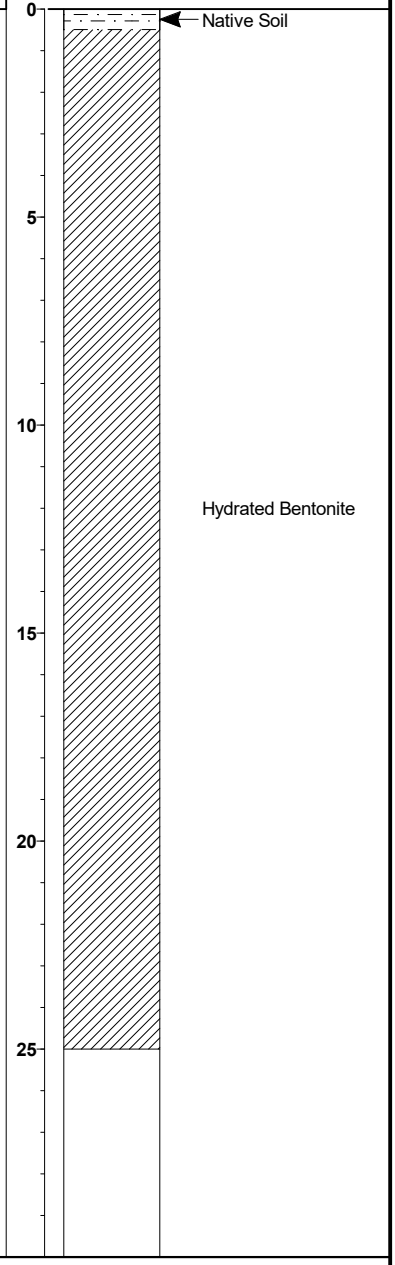
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:
Tar and catalyst observed in upper 5 feet.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1								
	5		SB12-5		0.0	ML		Orangish Brown, Silt with Trace Sand, Slightly Moist.
2								
3	10		SB12-10		0.0	ML		Orangish Brown, Silt with Trace Sand, Slightly Moist.
4								
	15		SB12-15		1.4	ML		Orangish Brown, Silt with Trace Sand, Slightly Moist.
5								
6	20		SB12-20		1.2	ML		Orangish Brown, Silt with Trace Sand, Slightly Moist.
7								
	25		SB12-25		0.0	SP		Tan, Very Fine Sand, Slightly Moist. Refusal at 25 ft bgs.
8								
9	30							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **C. Romanowski**
Sampling Method: **Dual Tube**

Date Started: **6/19/18**
Date Ended: **6/19/18**
Total Depth: **25.0 feet**
Boring Diameter: **2.25-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB13

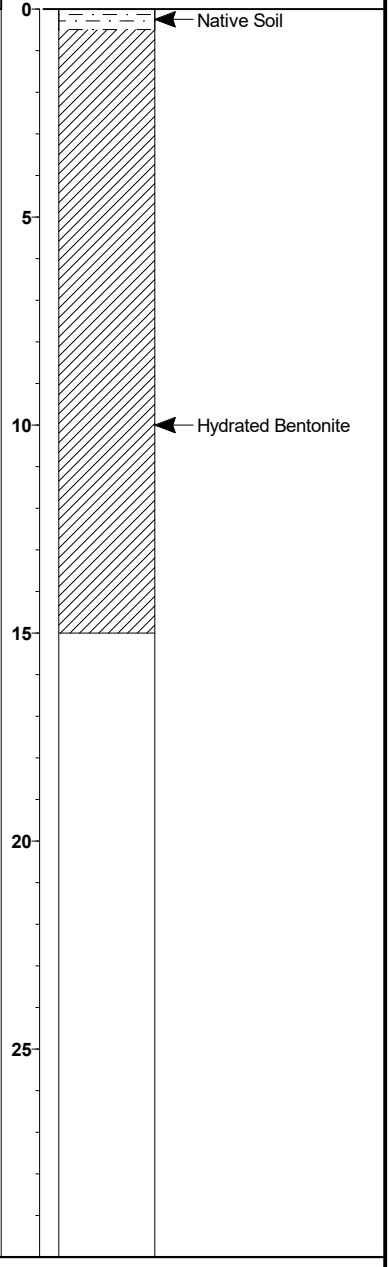
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1								
	5		SB13-5		34.3	CL		Black To Dark Brown, Silty Clay with Trace Gravel, Slightly Moist, Odor.
2								
3	10		SB13-10		3.4	SP		Tan, Very Fine to Fine Sand, Slightly Moist.
4								
	15		SB13-15		2.4	SP		Tan, Very Fine to Fine Sand, Slightly Moist.
5								
6	20							
7								
	25							
8								
9	30							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **15.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB14

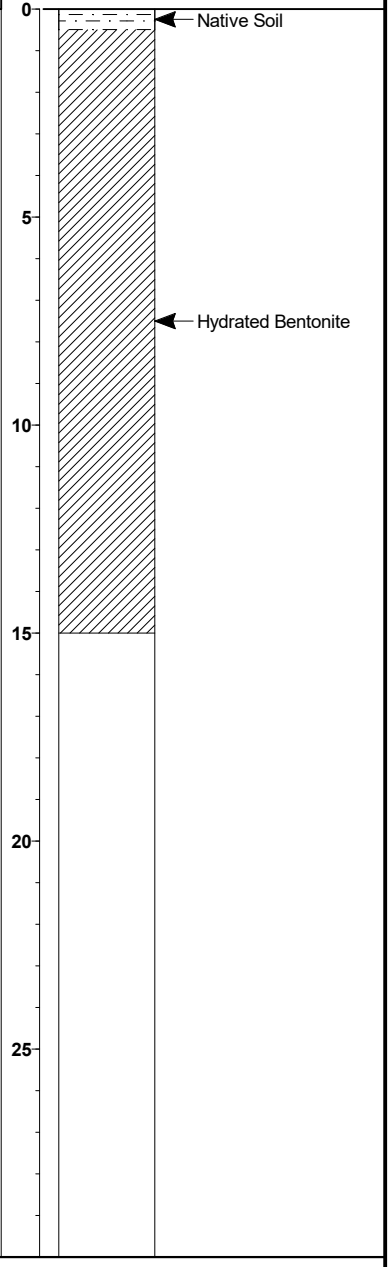
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB14-5		2.3	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
2								
3	10		SB14-10		2.3	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
4								
5	15		SB14-15		2.3	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
6	20							
7								
8	25							
9	30							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/20/18**
Date Ended: **6/20/18**
Total Depth: **15.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB15

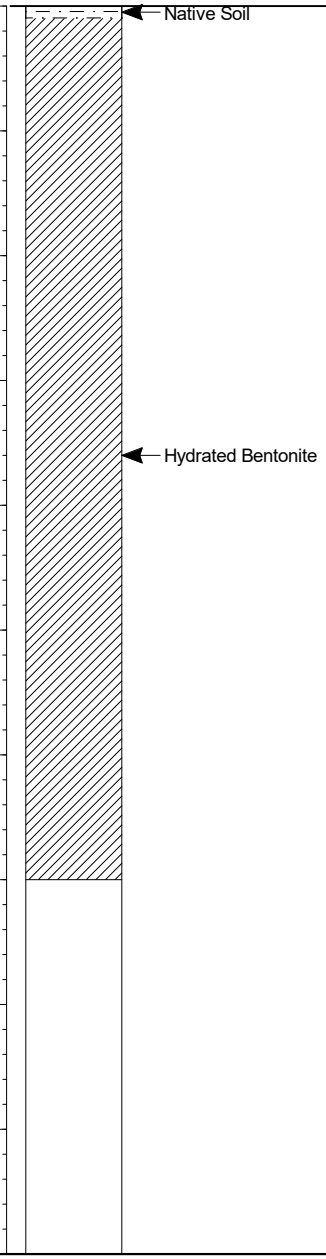
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
1.5	5		SB15-5		4.3	SP		Dark Brown, Very Fine to Fine Sand with Trace Silt, Slightly Moist.
3.0	10		SB15-10		4.4	SP		Brown, Very Fine to Fine Sand with Some Silt, Slightly Moist.
4.6	15		SB15-15		6.2	MH		Brown, Clayey Silt with Sand, Slightly Moist.
6.1	20		SB15-20		67.9	SM		Brown, Silty Sand, Slightly Moist, Mild Odor.
7.6	25		SB15-25		70.7	SP		Brown, Very Fine to Fine Sand with Some Silt, Slightly Moist.
9.1	30		SB15-30		72.4	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist, Odor.
10.7	35		SB15-35			SP		Light Brown, Very Fine Sand with Trace Silt, Slightly Moist, Odor.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/21/18**
Date Ended: **6/21/18**
Total Depth: **35.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB16

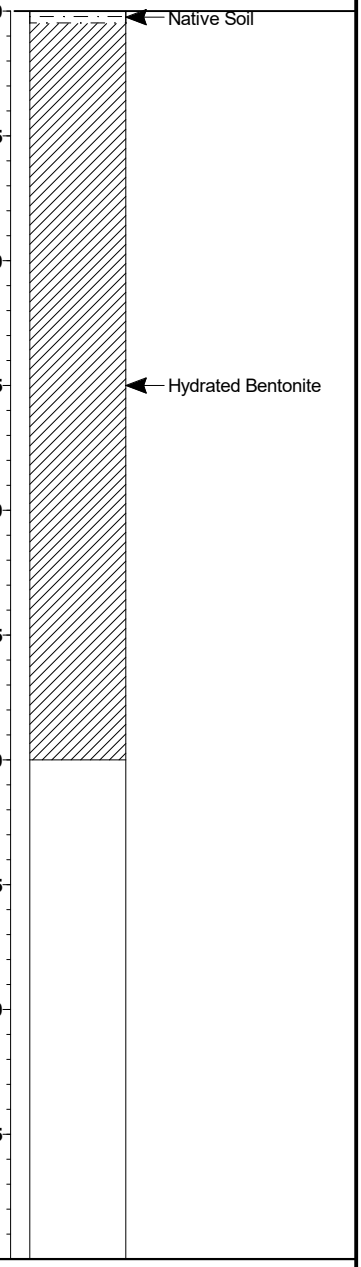
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
5	15		SB16-5		4.3	SP		Brown, Very Fine to Fine Sand with Trace Silt, Slightly Moist.
10	30		SB16-10		3.8	SM		Brown, Silty, Very Fine to Fine Sand with Trace Silt, Slightly Moist.
15	45		SB16-15		4.5	SM		Brown, Silty, Very Fine to Fine Sand with Trace Silt, Slightly Moist.
20	60		SB16-20		6.4	SP		Brown, Very Fine to Fine Sand with Some Silt, Slightly Moist.
25	75		SB16-25		7.7	SP		Gray, Very Fine to Fine Sand, Slightly Moist, Slight Odor.
30	90		SB16-30		13.4	SP		Grayish Brown, Very Fine to Fine Sand with Trace Clay, Slightly Moist.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/21/18**
Date Ended: **6/21/18**
Total Depth: **30.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB17

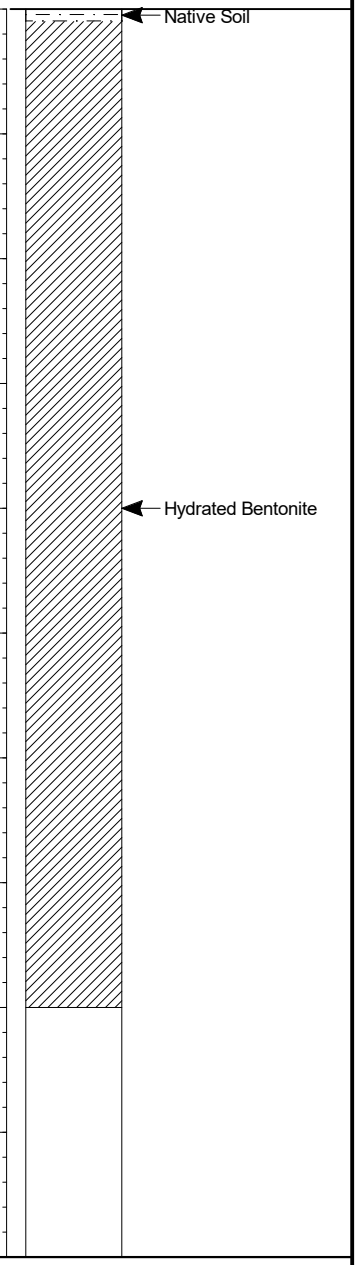
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB17-5		4.0	SP		Brown, Very Fine to Fine Sand, Slightly Moist.
2								
3	10		SB17-10		4.7	SP		Brown, Very Fine to Fine Sand with Trace Silt, Slightly Moist.
4								
5	15		SB17-15		4.2	SM		Brown, Silty Sand, Slightly Moist.
6	20		SB17-20		4.6	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.
7								
8	25		SB17-25		4.5	SM		Grayish Brown, Silty Sand, Slightly Moist.
9	30		SB17-30		39.9	SP		Brown, Sand with Some Silt, Slightly Moist, Slight Odor.
10								
11	35		SB17-35		33.4	SP		Brown, Sand with Some Silt, Slightly Moist, Slight Odor.
12	40		SB17-40		18.6	SP		Brown, Sand with Some Silt, Slightly Moist, Slight Odor.
13								
14	45							
15	50							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/21/18**
Date Ended: **6/21/18**
Total Depth: **40.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB18

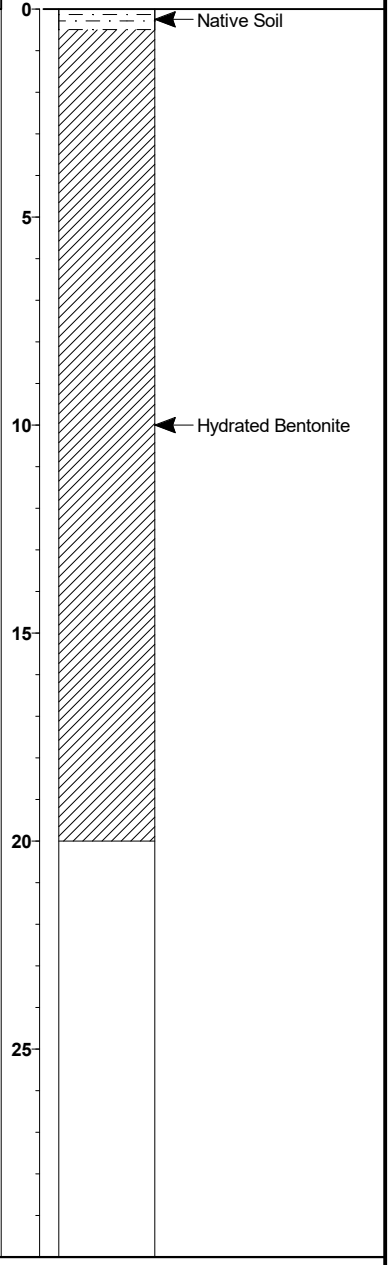
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
1	5		SB18-5		4.2	SP		Brown, Very Fine to Fine Sand, Slightly Moist.
3	10		SB18-10		3.7	SP		Brown, Very Fine to Fine Sand, Slightly Moist.
4.5	15		SB18-15		3.9	SP		Brown, Very Fine to Fine Sand, Slightly Moist.
6	20		SB18-20		4.4	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/21/18**
Date Ended: **6/21/18**
Total Depth: **20.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

SCS ENGINEERS

BORING LOG

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816

BORING NUMBER: SB19

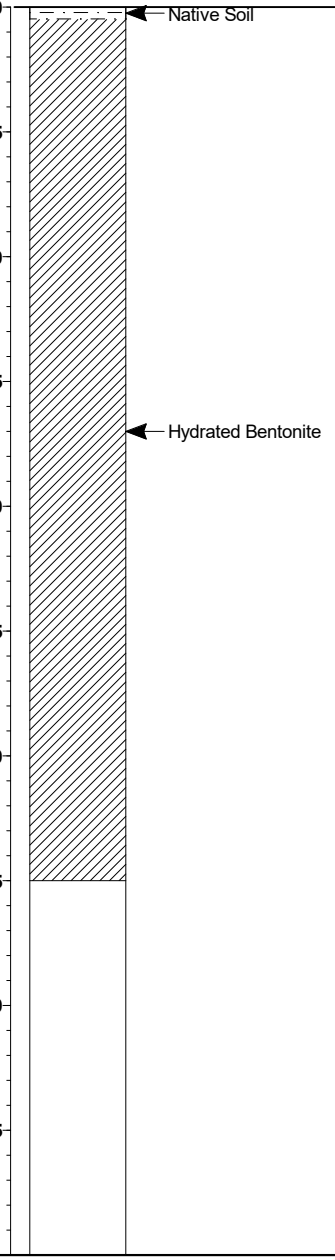
North Posse
3041 Del Amo Boulevard
Torance, CA

JOB NUMBER: 01217339.00 T3

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0							
1	5		SB19-5		3.9	SP		Brown, Very Fine to Fine Sand, Slightly Moist.
2								
3	10		SB19-10		5.5	SP		Orangish Brown, Very Fine to Fine Sand, Slightly Moist.
4								
5	15		SB19-15		8.3	SP		Orangish Brown, Sand with Some Silt, Slightly Moist.
6	20		SB19-20		4.4	SP		Light Brown, Very Fine to Fine Sand, Slightly Moist.
7								
8	25		SB19-25		10.2	MH		Brown, Clayey Silt, Slightly Moist.
9	30		SB19-30		4.4	SP		Brown, Sand with Trace Silt, Slighly Moist.
10								
11	35		SB19-35		30.5	SP		Brown, Very Fine to Fine Sand, Slightly Moist, Slight Odor.
12	40							
13								
14	45							
15	50							

Completion Detail



Drilling Company: **H&P Mobile Geochemistry**
Drilling Method: **Direct Push**
Logged By: **T. Nguyen**
Sampling Method: **Solid Spoon**

Date Started: **6/21/18**
Date Ended: **6/21/18**
Total Depth: **35.0 feet**
Boring Diameter: **1.75-inch**

STANDARD_LOG 01217339.00.GPJ STD_LOG.GDT 8/1/18

APPENDIX B

CHEMTEK LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 805120
Report Date: 06/27/18
Date Received: 05/30/18
Number of Samples: 10
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
T1-9'	05/29/18	805120-01A
T1-19.5'	05/29/18	805120-02A
T2-14'	05/29/18	805120-03A
T3-0.5	05/29/18	805120-04A
B4-10'	05/29/18	805120-05A
T4-8.5'	05/29/18	805120-06A
T4-14.5'	05/29/18	805120-07A
T5-7'	05/29/18	805120-08A
T3-1.5'	05/29/18	805120-09A
T6-0.5	05/29/18	805120-10A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 805120

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date			Sample ID	Sample Date		
Project No.	**T1-9'**	**5/29/2018**			**T1-19.5'**	**5/29/2018**		
Analyte	**Results**	**Units**	**DF**	**DLR**	**Results**	**Units**	**DF**	**DLR**
Benzene	390	µg/kg	176	176	ND	µg/kg	44	44
Bromobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
Bromochloromethane	ND	µg/kg	176	176	ND	µg/kg	44	44
Bromoform	ND	µg/kg	176	176	ND	µg/kg	44	44
Bromomethane	ND	µg/kg	176	176	ND	µg/kg	44	44
n-Butylbenzene	4,240	µg/kg	176	176	380	µg/kg	44	44
sec-Butylbenzene	3,170	µg/kg	176	176	193	µg/kg	44	44
tert-Butylbenzene	306	µg/kg	176	176	ND	µg/kg	44	44
Carbon Tetrachloride	ND	µg/kg	176	176	ND	µg/kg	44	44
Chlorobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
Chloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
Chloroform	ND	µg/kg	176	176	ND	µg/kg	44	44
Chloromethane	ND	µg/kg	176	176	ND	µg/kg	44	44
2-Chlorotoluene	ND	µg/kg	176	176	ND	µg/kg	44	44
4-Chlorotoluene	ND	µg/kg	176	176	ND	µg/kg	44	44
2-Chloroethyl vinyl ether	ND	µg/kg	176	352	ND	µg/kg	44	88
Dibromochloromethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2-Dibromo-3-chloropropane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2-Dibromoethane (EDB)	ND	µg/kg	176	176	ND	µg/kg	44	44
Dibromomethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2-Dichlorobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,3-Dichlorobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,4-Dichlorobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
Dichlorodifluoromethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1-Dichloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2-Dichloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1-Dichloroethene	ND	µg/kg	176	176	ND	µg/kg	44	44
cis-1,2 Dichloroethene	ND	µg/kg	176	176	ND	µg/kg	44	44
Trans-1,2-Dichloroethene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2-Dichloropropane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,3-Dichloropropane	ND	µg/kg	176	176	ND	µg/kg	44	44
2,2-Dichloropropane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1-Dichloropropene	ND	µg/kg	176	176	ND	µg/kg	44	44
Cis-1,3-Dichloropropene	ND	µg/kg	176	176	ND	µg/kg	44	44
trans-1,3-Dichloroproene	ND	µg/kg	176	176	ND	µg/kg	44	44
Ethylbenzene	8,680	µg/kg	176	176	341	µg/kg	44	44
Hexachlorobutadiene	ND	µg/kg	176	176	ND	µg/kg	44	44
Isopropylbenzene	3,770	µg/kg	176	176	147	µg/kg	44	44
4-Isopropyltoluene	213	µg/kg	176	176	218	µg/kg	44	44
Methylene Chloride	ND	µg/kg	176	880	ND	µg/kg	44	220
Naphthalene	38,600	µg/kg	176	176	4,450	µg/kg	44	44
n-propylbenzene	7,760	µg/kg	176	176	413	µg/kg	44	44
Styrene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1,1,2-Tetrachloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1,2,2-Tetrachloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
Tetrachloroethene(PCE)	ND	µg/kg	176	176	ND	µg/kg	44	44
Toluene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2,3-Trichlorobenzene	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2,4-Trichlorobenzene	678	µg/kg	176	176	166	µg/kg	44	44
1,1,1-Trichloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,1,2-Trichloroethane	ND	µg/kg	176	176	ND	µg/kg	44	44
Trichloroethene(TCE)	ND	µg/kg	176	176	ND	µg/kg	44	44
Trichlorofluoromethane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2,3-Trichloropropane	ND	µg/kg	176	176	ND	µg/kg	44	44
1,2,4-Trimethylbenzene	380	µg/kg	176	176	490	µg/kg	44	44
1,3,5-Trimethylbenzene	ND	µg/kg	176	176	88.9	µg/kg	44	44
Vinyl Chloride	ND	µg/kg	176	176	ND	µg/kg	44	44
Total Xylenes	800	µg/kg	176	352	132	µg/kg	44	88
Ethanol	ND	µg/kg	176	44000	ND	µg/kg	44	11000
MTBE	ND	µg/kg	176	176	ND	µg/kg	44	44
ETBE	ND	µg/kg	176	176	ND	µg/kg	44	44
DIPE	ND	µg/kg	176	176	ND	µg/kg	44	44
TAME	ND	µg/kg	176	176	ND	µg/kg	44	44
TBA	ND	µg/kg	176	8800	ND	µg/kg	44	2200
MEK	ND	µg/kg	176	1760	ND	µg/kg	44	440
MIBK	ND	µg/kg	176	1760	ND	µg/kg	44	440
2-Hexanone	ND	µg/kg	176	1760	ND	µg/kg	44	440
Analysis Date:	06/05/18				06/05/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 805120
Report Date: 06/27/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
T1-9'	mg/kg	2,270	176	35.2	40,800	50	250	7,800	50	500
T1-19.5'	mg/kg	87.7	44	8.80	880	1	5.0	320	1	10
T2-14'	mg/kg	118	10	2.00	11,500	10	50	8,900	10	100
T3-0.5	mg/kg	0.22	1	0.20	434	1	5.0	450	1	10
B4-10'	mg/kg	29.6	5	1.00	2,460	1	5.0	830	1	10
T4-8.5'	mg/kg	ND	1	0.20	ND	1	5.0	46.1	1	10
T4-14.5'	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
T5-7'	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
T3-1.5'	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
T6-0.5	mg/kg	ND	1	0.20	935	1	5.0	574	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		05/29/18			05/29/18			05/29/18		
Analysis Date:		05/30/18			06/06-07/18			06/06-07/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 805120
Report Date: 06/27/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	T1-9'	T1-19.5'	T3-0.5	T4-8.5'	T4-14.5'	T3-1.5'	T6-0.5	Detection
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	2.91	ND	ND	6.09	ND	ND	2.00
Barium	90.7	51.5	69.6	76.8	163	64.2	31.4	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	26.6	14.4	176	11.3	20.6	10.5	183	1.00
Cobalt	7.20	4.66	18.2	6.67	10.7	4.77	5.57	2.00
Copper	22.6	8.39	106	16.7	25.7	8.76	28.9	2.00
Lead	165	4.78	903	14.6	5.73	2.55	181	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	16.4	6.41	52.0	10.2	19.8	5.85	17.6	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	30.3	21.8	124	23.6	41.3	14.4	27.0	2.00
Zinc	51.5	15.5	327	41.1	43.2	15.2	177	5.00
Analysis Date:	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	T1-9'	T1-19.5'	T3-0.5	T4-8.5'	T4-14.5'	T3-1.5'	SB3-5	Detection
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 805120
Report Date: 06/27/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Units: ppb or µg/kg
Sample Matrix: Soil

Client Sample ID:	T3-0.5	T4-8.5'	T6-0.5	Detection
Dilution Factor:	4	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	ND	2.0
Chlordane (total)	ND	ND	ND	2.0
Chlordane (alpha)	ND	ND	ND	2.0
4,4'-DDD	27.2	ND	9.82	2.0
4,4'-DDE	ND	ND	21.5	2.0
4,4'-DDT	126	ND	72.5	2.0
Dieldrin	ND	ND	ND	2.0
Endosulfan I	ND	ND	ND	2.0
Endosulfan II	ND	ND	ND	2.0
Endosulfan Sulfate	ND	ND	ND	2.0
Endrin	ND	ND	ND	2.0
Endrin aldehyde	ND	ND	ND	2.0
Endrin ketone	ND	ND	ND	2.0
Chlordane (gamma)	ND	ND	ND	2.0
Heptachlor	ND	ND	61.0	2.0
Heptachlor epoxide	ND	ND	11.1	2.0
Alpha-BHC	ND	ND	ND	2.0
Betta-BHC	ND	ND	ND	2.0
Delta-BHC	ND	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	ND	2.0
Methoxychlor	ND	ND	ND	10.0
Toxaphene	ND	ND	ND	170.0
Analysis Date:	6/7/18	6/7/18	6/7/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8082
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or ug/Kg

Job No: 805120
Report Date: 06/27/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Sample Matrix: Soil

	Client Sample ID:	T1-9'	T1-19.5'	B4-10'	Detection
	Dilution Factor:	5	1	5	Limit
		ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCB 1016		ND	ND	ND	50.0
PCB 1221		ND	ND	ND	50.0
PCB 1232		ND	ND	ND	50.0
PCB 1242		ND	ND	ND	50.0
PCB 1248		ND	ND	ND	50.0
PCB 1254		ND	ND	ND	50.0
PCB 1260		ND	ND	ND	50.0
PCB 1262		ND	ND	ND	50.0
PCB 1268		ND	ND	ND	50.0
	Analysis Date:	6/5/18	6/5/18	6/5/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers | **Project No.** | **Job No:** 805120
Sample Matrix: Soil | **Project Site:** North Posse | **Report Date:** 06/27/18
Date of Sample: 05/29/18
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 05/30/18

Client Sample ID:	T1-9'	T1-19.5'	B4-10'	Detection
Dilution Factor:	3	1	1	Limit
	µg/kg	µg/kg	µg/kg	(ppb)
Phenol	ND	ND	ND	200
bis(2-Chloroethyl)Ether	ND	ND	ND	200
2-Chlorophenol	ND	ND	ND	200
1,3-Dichlorobenzene	ND	ND	ND	200
1,4-Dichlorobenzene	ND	ND	ND	200
Benzyl alcohol	ND	ND	ND	200
1,2-Dichlorobenzene	ND	ND	ND	200
2-Methylphenol(O-cresol)	ND	ND	ND	200
bis(2-Chloroisopropyl)Ether	ND	ND	ND	200
n-Nitroso-di-n-Propylamine	ND	ND	ND	200
4-Methylphenol(P-cresol)	ND	ND	ND	200
Hexachloroethane	ND	ND	ND	200
Nitrobenzene	ND	ND	ND	200
Isophorone	ND	ND	ND	200
2-Nitrophenol	ND	ND	ND	200
2,4-Dimethylphenol	ND	ND	ND	200
bis(2-Chloroethoxy) Methane	ND	ND	ND	200
2,4-Dichlorophenol	ND	ND	ND	400
1,2,4-Trichlorobenzene	ND	ND	ND	200
Naphthalene	22,800	532	ND	200
4-Chloroaniline	ND	ND	ND	200
Hexachlorobutadiene	ND	ND	ND	200
4-Chloro-3-Methylphenol	ND	ND	ND	200
2-Methlynaphthalene	120,000	1,050	ND	200
Hexachlorocyclopentadiene	ND	ND	ND	200
2,4,6-Trichlorophenol	ND	ND	ND	200
2,4,5-Trichlorophenol	ND	ND	ND	200
2-Chloronaphthalene	ND	ND	ND	200
2-Nitroaniline	ND	ND	ND	200
Dimethyl Phthalate	ND	ND	ND	200
Acenaphthylene	ND	ND	ND	200
2,6-Dinitrotoluene	ND	ND	ND	200
3-Nitroaniline	ND	ND	ND	200
Carbazole	ND	ND	ND	200
Benzoic Acid	ND	ND	ND	800
Acenaphthene	ND	ND	ND	200
2,4-Dinitrophenol	ND	ND	ND	200
Dibenzofuran	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	200
2,4-Dinitrotoluene	ND	ND	ND	200
Fluorene	ND	ND	ND	200
Diethyl Phthalate	ND	ND	ND	200
4-Chlorophenyl Phenyl Ether	ND	ND	ND	200
4-Nitroaniline	ND	ND	ND	200
4,6-Dinitro-2-methylphenol	ND	ND	ND	400
N-Nitrosodiphenylamine	ND	ND	ND	200
4-Bromophenyl Phenyl Ether	ND	ND	ND	200
Hexachlorobenzene(total)	ND	ND	ND	200
Pentachlorophenol	ND	ND	ND	400
Phenanthrene	16,000	692	ND	200
Anthracene	ND	ND	ND	200
Di-n-Butyl Phthalate	ND	ND	ND	200
Fluoranthene	686	ND	ND	200
Pyrene	7,620	234	2,040	200
Butyl Benzyl Phthalate	ND	ND	ND	200
Benzo(a)anthracene	8,950	ND	626	200
3,3-Dichlorobenzidine	ND	ND	ND	200
Chrysene	17,900	299	1,280	200
bis(2-Ethylhexyl) Phthalate	ND	ND	ND	200
Di-N-Octyl Phthalate	ND	ND	ND	200
Benzo(b)fluoranthene	4,360	ND	3,110	200
Benzo(k)fluoranthene	4,430	ND	3,160	200
Benzo(a)pyrene	4,140	ND	2,000	200
Indeno(1,2,3-C,D)Pyrene	1,190	ND	2,230	200
Dibenz(a,h)anthracene	2,980	ND	389	200
Benzo(g,h,i)perylene	3,030	ND	6,900	200
N-Nitrosodiemethylamine	ND	ND	ND	200
Pyridine	ND	ND	ND	200
Aniline	ND	ND	ND	200
Benzidine	ND	ND	ND	200
Analysis Date:	6/8/18	6/8/18	6/8/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Job No: 805120
Report Date: 06/27/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Extraction Method STLC (W.E.T Method)
Extraction Date 6/27/2018
Sample Matrix: Aqueous(STLC Extract)
EPA Method: 6010B Metals
Units: ppm or mg/l

Client Sample ID:	T3-0.5	Detection
Dilution Factor:	10	Limit
Analyte	**(ppm)**	**(ppm)**
Lead	33.2	0.10
Analysis Date:	6/29/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 6/27/2018
Date Received: 05/30/18
Sample Matrix: Aqueous(TCLP Extract)
EPA Method: 6010B Metals
Units: ppm or mg/l

Client Sample ID:	T3-0.5	Detection
Dilution Factor:	1	Limit
Analyte	**(ppm)**	**(ppm)**
Lead	ND	0.10
Analysis Date:	6/29/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01217339.00 T3	**Job No:**	805120
	3900 Kilroy Airport Way	**Project Site:**	North Posse	**Report Date:**	06/27/18
	Long Beach, CA			**Date of Sample:**	05/29/18
EPA Method:	7199 Hexavalent Chromium			**Date Received:**	05/30/18
Attention:		**Units:**	ppb or mg/Kg	**Sample Matrix:**	Soil

	Client Sample ID:	Detection
	Dilution Factor:	Limit
	mg/Kg	mg/Kg
Hexavlent Chromium	3.21	0.20

Analysis Date: 6/27/18

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/05/18 **Job No:** 805120
QC Lab ID: LCS,LCSD
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	122.8	115.7	6.0%	30	70-130
Benzene	ND	25	103.2	86.3	17.8%	30	70-130
Trichloroethylene	ND	25	116.2	106.2	9.0%	30	70-130
Toluene	ND	25	121.2	108.2	11.3%	30	70-130
Chlorobenzene	ND	25	95.6	91.8	4.1%	30	70-130

QC Analysis Date: 05/30/18
QC Lab ID: 805120-9A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	110.4	117.5	6.2%	30	70-130

QC Analysis Date: 06/07/18
QC Lab ID: 805120-6A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	110.8	113.0	2.0%	30	70-130

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QC Analysis Date: 06/07/18
QC Lab ID: 806021-1A
Units: ppm
Job No: 805120

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	90.0	92.0	2.2%	30	70-130
Arsenic	ND	1.00	99.0	102.0	3.0%	30	70-130
Barium	ND	1.00	90.0	92.0	2.2%	30	70-130
Beryllium	ND	1.00	92.0	95.0	3.2%	30	70-130
Cadmium	ND	1.00	91.0	92.0	1.1%	30	70-130
Chromium	ND	1.00	89.0	93.0	4.4%	30	70-130
Cobalt	ND	1.00	90.0	93.0	3.3%	30	70-130
Copper	ND	1.00	88.0	90.0	2.2%	30	70-130
Lead	ND	1.00	90.0	91.0	1.1%	30	70-130
Molybdenum	ND	1.00	88.0	91.0	3.4%	30	70-130
Nickel	ND	1.00	92.0	92.0	0.0%	30	70-130
Selenium	ND	1.00	90.0	92.0	2.2%	30	70-130
Silver	ND	1.00	111.0	113.0	1.8%	30	70-130
Thallium	ND	1.00	93.0	98.0	5.2%	30	70-130
Vanadium	ND	1.00	91.0	91.0	0.0%	30	70-130
Zinc	ND	1.00	89.0	91.0	2.2%	30	70-130

CHEMTEK Environmental Laboratories Inc.

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

805120

Job No.: 01217339.00, T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Ashley Hutchens Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.

SITE ADDRESS:

SAMPLED BY: Kevin Green ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☐ Other ☐

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs (8081A)	SVOCs (8270C)	PCBs (8082)		
1	T1-9'	5-29-18	8:56	SO:I				2			X	X					X		X	X		
2	T1-19.5'	"	9:20	"				2			X	X					X		X	X		
3	T2-14'	"	10:45	"				1			X											
4	T3-0.5	"	12:44	"				1			X						X	X				
5	B4-10'	"	1:20	"				1			X								X	X		
6	T4-8.5'	"	1:42	"				1			X						X	X				
7	T4-14.5'	"	1:55	"				1			X						X					
8	T5-7'	"	2:55	"				1			X						[illegible]					
9	T3-1.5	"	12:41	"				1			X						X					
10	T6-0.5	"	12:03	"				1			X						X	X				
11																						
12																						
13																						
14																						
15																						
16																						

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
~~RELINQUISHED~~ BY: [signature]	Murth	Chemtek	5/30/18	10 00 am
~~RECEIVED~~ BY:				
RELINQUISHED BY: Ashley Hutchens	Ashley Hutchens	SCS	5/30/18	10:00
RECEIVED FOR LABORATORY BY:				

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 805120A
Report Date: 07/12/18
Date Received: 05/30/18
Number of Samples: 10
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
T1-9'	05/29/18	805120-01A
T1-19.5'	05/29/18	805120-02A
T2-14'	05/29/18	805120-03A
T3-0.5	05/29/18	805120-04A
B4-10'	05/29/18	805120-05A
T4-8.5'	05/29/18	805120-06A
T4-14.5'	05/29/18	805120-07A
T5-7'	05/29/18	805120-08A
T3-1.5'	05/29/18	805120-09A
T6-0.5	05/29/18	805120-10A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01217339.00 T3	**Job No:**	805120A
	3900 Kilroy Airport Way	**Project Site:**	North Posse	**Report Date:**	07/11/18
	Long Beach, CA			**Date of Sample:**	05/29/18
EPA Method:	7199 Hexavalent Chromium			**Date Received:**	05/30/18
Attention:		**Units:**	ppb or mg/Kg	**Sample Matrix:**	Soil

	Client Sample ID:	Detection
	Dilution Factor:	Limit
	mg/Kg	mg/Kg
Hexavlent Chromium	3.51	0.20

Analysis Date: 7/9/18

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Job No: 805120A
Report Date: 07/11/18
Date of Sample: 05/29/18
Date Received: 05/30/18
Sample Matrix: Aqueous(STLC Extract)

Extraction Method STLC (W.E.T Method)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Client Sample ID:	T1-9	T6-0.5	Detection
Dilution Factor:	4	4	Limit
Analyte	**(ppm)**	**(ppm)**	**(ppm)**
Lead	9.04	4.75	0.02
Analysis Date:	7/11/18	7/11/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l
Date Received: 05/30/18
Sample Matrix: Aqueous(TCLP Extract)

Client Sample ID:	T1-9	T6-0.5	Detection
Dilution Factor:	2	2	Limit
Analyte	**(ppm)**	**(ppm)**	**(ppm)**
Lead	0.10	0.44	0.02
Analysis Date:	7/11/18	7/11/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 07/11/18 **Job No:** 805120A
QC Lab ID: 807019-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

QC Analysis Date: 07/09/18
QC Lab ID: HC070918-1
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

METHOD: 7199

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Chromium(VI)	ND	1.00	93.4	93.4	0.0%	20	75-125

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

805120

Job No.: 01217339.00, T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Ashley Hutchens Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.

SITE ADDRESS:

SAMPLED BY: Kevin Green ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☐ Other ☐

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs (8081A)	SVOCs (8270C)	PCBs (8082)		
1	T1-9'	5-29-18	8:56	SO:I				2			X	X					X		X	X		
2	T1-19.5'	"	9:20	"				2			X	X					X		X	X		
3	T2-14'	"	10:45	"				1			X											
4	T3-0.5	"	12:44	"				1			X						X	X				
5	B4-10'	"	1:20	"				1			X								X	X		
6	T4-8.5'	"	1:42	"				1			X						X	X				
7	T4-14.5'	"	1:55	"				1			X						X					
8	T5-7'	"	2:55	"				1			X						[illegible]					
9	T3-1.5	"	12:41	"				1			X						X					
10	T6-0.5	"	12:03	"				1			X						X	X				
11																						
12																						
13																						
14																						
15																						
16																						

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
~~RELINQUISHED~~ BY: [signature]	Murth	Chemtek	5/30/18	10 00 am
~~RECEIVED~~ BY:				
RELINQUISHED BY: Ashley Hutchens	Ashley Hutchens	SCS	5/30/18	10:00
RECEIVED FOR LABORATORY BY:				

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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OUTSTA...
Notes...
royal air... 1
New folder

additional Hex Chrom analysis

HA

Hutchens, Ashley <AHutchens@SCSEngineers.com>
Thu 7/5/2018, 4:52 PM
Martin Lu (chemteklabs@hotmail.com); Romanowski, Christopher; Green, Kevin

Martin,

On a rush basis, can you please prep/analyze the following:

Please analyze the following samples for hexavalent chromium:
5/29/18 sample T6-0.5
6/20/18 sample SB2-10
6/19/18 samples SB3-5 and SB11-5
6/18/18 samples Surface 5, Surface 8, and Surface 12.

Please prep and analyze STLC/TCLP for lead for the following samples:
5/29/18 sample T1-9 and T6-0.5
5/30/18 sample B8 1-2
6/18/18 samples Surface 5, Surface 8, Surface 10, Surface 11, Surface 12, Surface 13, Surface 15, and Surface 16
6/19/18 sample SB3-5
6/20/18 sample SB7-5 and SB2-10
6/25/18 sample SB6-5 and SB8-5

Ashley P. Hutchens
Senior Project Manager
SCS Engineers
Direct: 562.637.4502
Cell: 562.572.4097
ahutchens@scsengineers.com | www.scsengineers.com

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LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806005A
Report Date: 07/11/18
Date Received: 06/01/18
Number of Samples: 8
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
B7-30	05/30/18	806005-01A
B8-1-2' CUT	05/30/18	806005-02A
B9-4	05/30/18	806005-03A
B9-16	05/30/18	806005-04A
OCP1	05/30/18	806005-05A
OCP2	05/30/18	806005-06A
OCP3	05/30/18	806005-07A
OCP4	05/30/18	806005-08A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Extraction Method STLC (W.E.T Method)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Job No: 806005A
Report Date: 07/11/18
Date of Sample: 05/30/18
Date Received: 06/01/18
Sample Matrix: Aqueous(STLC Extract)

Client Sample ID: B8-1-2' CUT		Detection
Dilution Factor:	4	Limit
Analyte	**(ppm)**	**(ppm)**
Lead	ND	0.02
Analysis Date:	7/11/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Date Received: 06/01/18
Sample Matrix: Aqueous(TCLP Extract)

Client Sample ID: B8-1-2' CUT		Detection
Dilution Factor:	2	Limit
Analyte	**(ppm)**	**(ppm)**
Lead	0.65	0.02
Analysis Date:	7/11/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 07/11/18
QC Lab ID: 807019-1A
Units: ppm
Job No: 806005A

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

Favorites
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OUTSTA...
Sent Ite... 2
Aron Gust...
Inbox 3329
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Folders
Inbox 3329
Junk ... 139
Drafts 1176
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New folder

additional Hex Chrom analysis

HA

Hutchens, Ashley <AHutchens@SCSEngineers.com>
Thu 7/5/2018, 4:52 PM
Martin Lu (chemteklabs@hotmail.com); Romanowski, Christopher; Green, Kevin

Martin,

On a rush basis, can you please prep/analyze the following:

Please analyze the following samples for hexavalent chromium:
5/29/18 sample T6-0.5
6/20/18 sample SB2-10
6/19/18 samples SB3-5 and SB11-5
6/18/18 samples Surface 5, Surface 8, and Surface 12.

Please prep and analyze STLC/TCLP for lead for the following samples:
5/29/18 sample T1-9 and T6-0.5
5/30/18 sample B8 1-2
6/18/18 samples Surface 5, Surface 8, Surface 10, Surface 11, Surface 12, Surface 13, Surface 15, and Surface 16
6/19/18 sample SB3-5
6/20/18 sample SB7-5 and SB2-10
6/25/18 sample SB6-5 and SB8-5

Ashley P. Hutchens
Senior Project Manager
SCS Engineers
Direct: 562.637.4502
Cell: 562.572.4097
ahutchens@scsengineers.com | www.scsengineers.com

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CHAIN OF CUSTODY RECORD

806005

Job No.: 01217339.00, T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Ashley Hutchens Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Prologis - North Posse P.O. No.

SITE ADDRESS: Torrance

SAMPLED BY: Kevin Green ☐ EDF

Turn Around Time: NORM ☐ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	SVOCs (8270C)	PCBs (8082)	OCPs (8081A)		
1	B7 - 30'	5-30-18	9:07	Soil				2			X	X										
2	BB-1-2' cuttings	5-30-18	9:50					1			X						X	X	X			
3	B9 - 4'	5-30-18	12:15					1			X						X			X		
4	B9 - 16'	5-30-18	12:35					2			X	X										
5	OCP1	5-30-18	2:10					1									X			X		
6	OCP2	5-30-18	2:16					1									X			X		
7	OCP3	5-30-18	2:20					1									X			X		
8	OCP4	5-30-18	2:24	↓				1									X			X		
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/1/18	1115
RECEIVED BY:	Murty	Chem	6/1/18	1115
RELINQUISHED BY:		Chem	6/1/18	12
RECEIVED FOR LABORATORY BY:		CL	6/1/18	12

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806005
Report Date: 06/08/18
Date Received: 06/01/18
Number of Samples: 8
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
B7-30	05/30/18	806005-01A
B8-1-2' CUT	05/30/18	806005-02A
B9-4	05/30/18	806005-03A
B9-16	05/30/18	806005-04A
OCP1	05/30/18	806005-05A
OCP2	05/30/18	806005-06A
OCP3	05/30/18	806005-07A
OCP4	05/30/18	806005-08A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806005

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date		Sample ID	Sample Date
Project No. 01218042.00 T2	B7-30	5/30/2018		B9-16	5/30/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	14.9	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.1	1.1	1.54	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.1	1.1	7.26	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.1	1.1	16.8	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.1	1.1	2.33	µg/kg	1	1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	21.6	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	7.22	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.1	2.2	18.7	µg/kg	1	2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1	50
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1	10
Analysis Date:	06/01/18				06/05/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806005
Report Date: 06/08/18
Date of Sample: 05/30/18
Date Received: 06/01/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
B7-30	mg/kg	0.65	1	0.20	ND	1	5.0	ND	1	10
B8-1-2' CUT	mg/kg	0.49	2	0.40	ND	1	5.0	24	1	10
B9-4	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B9-16	mg/kg	1.43	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		05/30/18			05/30/18			05/30/18		
Analysis Date:		06/01/18			06/07/18			06/07/18		
		6/5/2018								

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806005
Report Date: 06/08/18
Date of Sample: 05/30/18
Date Received: 06/01/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	B8-1-2' CUT	B9-4	OCP1	OCP2	OCP3	OCP4	Detection
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	2.00
Barium	38.3	101	28.3	22.9	41.3	32.9	1.00
Beryllium	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	1.00
Chromium	41.2	18.7	8.85	8.59	10.5	8.39	1.00
Cobalt	5.42	11.2	3.94	4.10	4.11	3.98	2.00
Copper	27.5	24.7	11.9	11.2	15.8	15.3	2.00
Lead	126	7.09	ND	16.3	16.3	18.8	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	2.00
Nickel	15.7	17.0	6.26	5.79	6.53	6.23	2.00
Selenium	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	2.00
Vanadium	26.5	40.4	12.1	11.9	15.8	13.2	2.00
Zinc	42.1	55.1	38.1	43.7	64.9	40.9	5.00
Analysis Date:	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	B8-1-2' CUT	B9-4	OCP1	OCP2	OCP3	OCP4	Detection
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or µg/kg

Job No: 806005
Report Date: 06/08/18
Date of Sample: 05/30/18
Date Received: 06/01/18
Sample Matrix: Soil

Client Sample ID:	B9-4	OCP1	OCP2	OCP3	OCP4	Detection
Dilution Factor:	1	1	1	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	ND	ND	ND	2.0
Chlordane (total)	ND	2.37	ND	2.32	1.17J	2.0
Chlordane (alpha)	ND	1.20J	ND	1.00J	ND	2.0
4,4'-DDD	ND	18.9	7.22	10.4	13.6	2.0
4,4'-DDE	ND	386	86.3	160	328	2.0
4,4'-DDT	ND	151	61.1	57.0	83.4	2.0
Dieldrin	ND	ND	ND	ND	ND	2.0
Endosulfan I	ND	ND	ND	ND	ND	2.0
Endosulfan II	ND	ND	ND	ND	ND	2.0
Endosulfan Sulfate	ND	ND	ND	ND	ND	2.0
Endrin	ND	ND	ND	ND	ND	2.0
Endrin aldehyde	ND	ND	ND	ND	ND	2.0
Endrin ketone	ND	ND	ND	ND	ND	2.0
Chlordane (gamma)	ND	1.17J	ND	1.32J	ND	2.0
Heptachlor	ND	ND	ND	ND	ND	2.0
Heptachlor epoxide	ND	ND	ND	ND	ND	2.0
Alpha-BHC	ND	ND	ND	ND	ND	2.0
Betta-BHC	ND	ND	1.07J	1.47J	ND	2.0
Delta-BHC	ND	ND	ND	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	ND	ND	ND	2.0
Methoxychlor	ND	ND	ND	ND	ND	10.0
Toxaphene	ND	719	471	161J	250	170.0
Analysis Date:	6/7/18	6/7/18	6/7/18	6/7/18	6/7/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8082
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or ug/Kg

Job No: 806005
Report Date: 06/08/18
Date of Sample: 05/30/18
Date Received: 06/01/18
Sample Matrix: Soil

	Client Sample ID:	B8-1-2' CUT	Detection
	Dilution Factor:	1	Limit
		ug/Kg	ug/Kg
PCB 1016		ND	50.0
PCB 1221		ND	50.0
PCB 1232		ND	50.0
PCB 1242		ND	50.0
PCB 1248		ND	50.0
PCB 1254		ND	50.0
PCB 1260		ND	50.0
PCB 1262		ND	50.0
PCB 1268		ND	50.0
	Analysis Date:	6/7/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers | **Project No.** | **Job No:** 806005
Sample Matrix: Soil | **Project Site:** North Posse | **Report Date:** 06/08/18
Date of Sample: 05/30/18
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 06/01/18

Client Sample ID:	B8-1-2' CUT	Detection
Dilution Factor:	1	Limit
	µg/kg	(ppb)
Phenol	ND	200
bis(2-Chloroethyl)Ether	ND	200
2-Chlorophenol	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
Benzyl alcohol	ND	200
1,2-Dichlorobenzene	ND	200
2-Methylphenol(O-cresol)	ND	200
bis(2-Chloroisopropyl)Ether	ND	200
n-Nitroso-di-n-Propylamine	ND	200
4-Methylphenol(P-cresol)	ND	200
Hexachloroethane	ND	200
Nitrobenzene	ND	200
Isophorone	ND	200
2-Nitrophenol	ND	200
2,4-Dimethylphenol	ND	200
bis(2-Chloroethoxy) Methane	ND	200
2,4-Dichlorophenol	ND	400
1,2,4-Trichlorobenzene	ND	200
Naphthalene	2,880	200
4-Chloroaniline	ND	200
Hexachlorobutadiene	ND	200
4-Chloro-3-Methylphenol	ND	200
2-Methlynaphthalene	4,680	200
Hexachlorocyclopentadiene	ND	200
2,4,6-Trichlorophenol	ND	200
2,4,5-Trichlorophenol	ND	200
2-Chloronaphthalene	ND	200
2-Nitroaniline	ND	200
Dimethyl Phthalate	ND	200
Acenaphthylene	ND	200
2,6-Dinitrotoluene	ND	200
3-Nitroaniline	ND	200
Carbazole	2,350	200
Benzoic Acid	ND	800
Acenaphthene	ND	200
2,4-Dinitrophenol	ND	200
Dibenzofuran	ND	200
4-Nitrophenol	ND	200
2,4-Dinitrotoluene	ND	200
Fluorene	ND	200
Diethyl Phthalate	ND	200
4-Chlorophenyl Phenyl Ether	ND	200
4-Nitroaniline	ND	200
4,6-Dinitro-2-methylphenol	ND	400
N-Nitrosodiphenylamine	ND	200
4-Bromophenyl Phenyl Ether	ND	200
Hexachlorobenzene(total)	ND	200
Pentachlorophenol	ND	400
Phenanthrene	47,200	200
Anthracene	2,870	200
Di-n-Butyl Phthalate	ND	200
Fluoranthene	2,120	200
Pyrene	15,000	200
Butyl Benzyl Phthalate	ND	200
Benzo(a)anthracene	21,700	200
3,3-Dichlorobenzidine	ND	200
Chrysene	ND	200
bis(2-Ethylhexyl) Phthalate	ND	200
Di-N-Octyl Phthalate	ND	200
Benzo(b)fluoranthene	ND	200
Benzo(k)fluoranthene	8,440	200
Benzo(a)pyrene	10,400	200
Indeno(1,2,3-C,D)Pyrene	ND	200
Dibenz(a,h)anthracene	5,880	200
Benzo(g,h,i)perylene	6,720	200
N-Nitrosodiemethylamine	ND	200
Pyridine	ND	200
Aniline	ND	200
Benzidine	ND	200
Analysis Date:	6/8/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/01/18 **Job No: 806005**
QC Lab ID: 806005-1A
Units: ppb

QUALITY CONTROL DATA
EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	109.8	106.6	3.0%	30	70-130
Benzene	ND	25	95.0	92.7	2.5%	30	70-130
Trichloroethylene	ND	25	107.8	106.6	1.1%	30	70-130
Toluene	ND	25	127.4	125.1	1.8%	30	70-130
Chlorobenzene	ND	25	117.8	116.9	0.8%	30	70-130

QC Analysis Date: 06/05/18
QC Lab ID: LCS,LCSD
Units: ppm

QUALITY CONTROL DATA
EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	117.0	112.5	3.9%	30	70-130

QC Analysis Date: 06/07/18
QC Lab ID: 805120-6A
Units: ppm

QUALITY CONTROL DATA
EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	110.8	113.0	2.0%	30	70-130

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QC Analysis Date: 06/07/18
QC Lab ID: 806021-1A
Units: ppm
Job No: 806005

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	90.0	92.0	2.2%	30	70-130
Arsenic	ND	1.00	99.0	102.0	3.0%	30	70-130
Barium	ND	1.00	90.0	92.0	2.2%	30	70-130
Beryllium	ND	1.00	92.0	95.0	3.2%	30	70-130
Cadmium	ND	1.00	91.0	92.0	1.1%	30	70-130
Chromium	ND	1.00	89.0	93.0	4.4%	30	70-130
Cobalt	ND	1.00	90.0	93.0	3.3%	30	70-130
Copper	ND	1.00	88.0	90.0	2.2%	30	70-130
Lead	ND	1.00	90.0	91.0	1.1%	30	70-130
Molybdenum	ND	1.00	88.0	91.0	3.4%	30	70-130
Nickel	ND	1.00	92.0	92.0	0.0%	30	70-130
Selenium	ND	1.00	90.0	92.0	2.2%	30	70-130
Silver	ND	1.00	111.0	113.0	1.8%	30	70-130
Thallium	ND	1.00	93.0	98.0	5.2%	30	70-130
Vanadium	ND	1.00	91.0	91.0	0.0%	30	70-130
Zinc	ND	1.00	89.0	91.0	2.2%	30	70-130

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CHAIN OF CUSTODY RECORD

806005

Job No.: 01217339.00, T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Ashley Hutchens Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Prologis - North Posse P.O. No.

SITE ADDRESS: Torrance

SAMPLED BY: Kevin Green ☐ EDF

Turn Around Time: NORM ☐ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	SVOCs (8270C)	PCBs (8082)	OCPs (8081A)		
1	B7 - 30'	5-30-18	9:07	Soil				2			X	X										
2	BB-1-2' cuttings	5-30-18	9:50					1			X						X	X	X			
3	B9 - 4'	5-30-18	12:15					1			X						X			X		
4	B9 - 16'	5-30-18	12:35					2			X	X										
5	OCP1	5-30-18	2:10					1									X			X		
6	OCP2	5-30-18	2:16					1									X			X		
7	OCP3	5-30-18	2:20					1									X			X		
8	OCP4	5-30-18	2:24	↓				1									X			X		
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/1/18	1115
RECEIVED BY:	Murty	Chem	6/1/18	1115
RELINQUISHED BY:		Chem	6/1/18	12
RECEIVED FOR LABORATORY BY:		CL	6/1/18	12

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806006
Report Date: 06/08/18
Date Received: 06/01/18
Number of Samples: 28
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
B10-2	05/31/18	806006-01A
B10-10	05/31/18	806006-02A
B11-20	05/31/18	806006-03A
B13-5	05/31/18	806006-04A
B13-10	05/31/18	806006-05A
B13-15	05/31/18	806006-06A
B13-20	05/31/18	806006-07A
B13-25	05/31/18	806006-08A
B13-30	05/31/18	806006-09A
B14-5	05/31/18	806006-10A
B14-10	05/31/18	806006-11A
B14-15	05/31/18	806006-12A
B14-20	05/31/18	806006-13A
B15-5	05/31/18	806006-14A
B15-10	05/31/18	806006-15A
B15-15	05/31/18	806006-16A
B15-20	05/31/18	806006-17A
B15-25	05/31/18	806006-18A
B19-5	05/31/18	806006-19A
B19-10	05/31/18	806006-20A
B19-15	05/31/18	806006-21A
B19-20	05/31/18	806006-22A
B20-5	05/31/18	806006-23A
B20-10	05/31/18	806006-24A
B20-15	05/31/18	806006-25A
B20-20	05/31/18	806006-26A
B20-25	05/31/18	806006-27A
B20-30	05/31/18	806006-28A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806006
Report Date: 06/08/18
Date of Sample: 05/31/18
Date Received: 06/01/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
B10-2	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B10-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B11-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B13-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B13-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B13-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B14-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B14-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B15-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B15-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B15-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B19-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B19-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B19-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B20-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B20-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
B20-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		05/31/18			05/31/18			05/31/18		
Analysis Date:		06/04/18			06/07/18			06/07/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806006
Report Date: 06/08/18
Date of Sample: 05/31/18
Date Received: 06/01/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	B13-5	B15-5	B19-5	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	2.00
Arsenic	ND	ND	ND	2.00
Barium	53.5	54.0	25.8	1.00
Beryllium	ND	ND	ND	1.00
Cadmium	ND	ND	ND	1.00
Chromium	10.0	9.87	5.25	1.00
Cobalt	4.92	4.65	2.22	2.00
Copper	9.54	10.3	5.91	2.00
Lead	2.75	2.42	ND	2.00
Molybdenum	ND	ND	ND	2.00
Nickel	5.90	5.59	2.86	2.00
Selenium	ND	ND	ND	2.00
Silver	ND	ND	ND	1.00
Thallium	ND	ND	ND	2.00
Vanadium	15.6	14.7	7.38	2.00
Zinc	15.3	14.7	8.56	5.00
Analysis Date:	6/7/18	6/7/18	6/7/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	B13-5	B15-5	B19-5	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	0.05
Analysis Date:	6/7/18	6/7/18	6/7/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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QC Analysis Date: 06/04/18
QC Lab ID: 805114-4A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	104.2	85.9	19.3%	30	70-130

QC Analysis Date: 06/07/18
QC Lab ID: 805120-6A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	110.8	113.0	2.0%	30	70-130

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QC Analysis Date: 06/07/18
QC Lab ID: 806021-1A
Units: ppm
Job No: 806006

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	90.0	92.0	2.2%	30	70-130
Arsenic	ND	1.00	99.0	102.0	3.0%	30	70-130
Barium	ND	1.00	90.0	92.0	2.2%	30	70-130
Beryllium	ND	1.00	92.0	95.0	3.2%	30	70-130
Cadmium	ND	1.00	91.0	92.0	1.1%	30	70-130
Chromium	ND	1.00	89.0	93.0	4.4%	30	70-130
Cobalt	ND	1.00	90.0	93.0	3.3%	30	70-130
Copper	ND	1.00	88.0	90.0	2.2%	30	70-130
Lead	ND	1.00	90.0	91.0	1.1%	30	70-130
Molybdenum	ND	1.00	88.0	91.0	3.4%	30	70-130
Nickel	ND	1.00	92.0	92.0	0.0%	30	70-130
Selenium	ND	1.00	90.0	92.0	2.2%	30	70-130
Silver	ND	1.00	111.0	113.0	1.8%	30	70-130
Thallium	ND	1.00	93.0	98.0	5.2%	30	70-130
Vanadium	ND	1.00	91.0	91.0	0.0%	30	70-130
Zinc	ND	1.00	89.0	91.0	2.2%	30	70-130

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CHAIN OF CUSTODY RECORD

806006 3

Job No.: 01217399.00

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: A. Hutchens Email: Ahutchens@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.
SITE ADDRESS: 3041 Del Amo Blvd
SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr Other

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hold
1	B10 - 2	5/31/18	743	Soil				1			X							X
2	B10 - 10		754								X							
3	B11 - 20		900								X	X						
4	B13 - 5		1300														X	
5	B13 - 10		1310								X							
6	B13 - 15		1314															X
7	B13 - 20		1320								X	X						
8	B13 - 25		1324															X
9	B13 - 30		1328								X	X						
10	B14 - 5		1414								X							
11	B14 - 10		1425															X
12	B14 - 15		1430								X							
13	B14 - 20		1434															X
14	B15 - 5		1153								X						X	
15	B15 - 10		1200															X
16	B15 - 15		1205								X							

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/1/18	1010
RECEIVED BY:		Martinez	Chem	6/1/18	1010
RELINQUISHED BY:			Chemtek	6/1/18	12
RECEIVED FOR LABORATORY BY:			Chem	6/1/18	12

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

806006

Job No.: 01217399.00 T 3

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Email: ahutchens@scsengineers.com

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	hold				
1	B15-20	5/31/18	1210	SO				1										X				
2	B15-25		1213								X											
3	B19-5		1058								X						X					
4	B19-10		1104								X											
5	B19-15		1109															X				
6	B19-20		1111								X											
7	B20-5		948								X											
8	B20-10		955															X				
9	B20-15		1000								X											
10	B20-20		1005															X				
11	B20-25		1013								X											
12	B20-30		1016															X				
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/1/18	1010
RECEIVED BY:		CHM	6/1/18	1010
RELINQUISHED BY:		CHM	6/1/18	12
RECEIVED FOR LABORATORY BY:		CL	6/1/18	12

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806067A
Report Date: 07/11/18
Date Received: 06/18/18
Number of Samples: 16
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
Surface-1	06/18/18	806067-01A
Surface-3	06/18/18	806067-02A
Surface-2	06/18/18	806067-03A
Surface-4	06/18/18	806067-04A
Surface-5	06/18/18	806067-05A
Surface-8	06/18/18	806067-06A
Surface-7	06/18/18	806067-07A
Surface-9	06/18/18	806067-08A
Surface-10	06/18/18	806067-09A
Surface-11	06/18/18	806067-10A
Surface-14	06/18/18	806067-11A
Surface-13	06/18/18	806067-12A
Surface-15	06/18/18	806067-13A
Surface-16	06/18/18	806067-14A
Surface-6	06/18/18	806067-15A
Surface-12	06/18/18	806067-16A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01217339.00	**Job No:**	806067A
	3900 Kilroy Airport Way	**Project Site:**	North Posse	**Report Date:**	07/11/18
	Long Beach, CA			**Date of Sample:**	06/18/18
EPA Method:	7199 Hexavalent Chromium			**Date Received:**	06/18/18
Attention:		**Units:**	ppb or mg/Kg	**Sample Matrix:**	Soil

Client Sample ID:	Surface-5	Surface-8	Surface-12	Detection
Dilution Factor:	1	10	5	Limit
	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Hexavlent Chromium	0.159J	ND	ND	0.20
Analysis Date:	7/9/18	7/9/18	7/9/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Job No: 806067A
Report Date: 07/11/18
Date of Sample: 06/18/18
Extraction Method STLC (W.E.T Method)
Date Received: 06/18/18
Extraction Date 7/9/2018
Sample Matrix: Aqueous(STLC Extract)
EPA Method: 6010B Metals
Units: ppm or mg/l

Client Sample ID:	SUR-5	SUR-8	SUR-10	SUR-11	SUR-12	SUR-13	SUR-15	SUR-16	Detection
Dilution Factor:	4	4	4	4	4	4	4	4	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Lead	6.12	7.36	7.92	15.9	37.8	10.4	29.8	13.4	0.02
Analysis Date:	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	

Extraction Method TCLP (EPA 1311)
Date Received: 06/18/18
Extraction Date 7/9/2018
Sample Matrix: Aqueous(TCLP Extract)
EPA Method: 6010B Metals
Units: ppm or mg/l

Client Sample ID:	SUR-5	SUR-8	SUR-10	SUR-11	SUR-12	SUR-13	SUR-15	SUR-16	Detection
Dilution Factor:	2	2	2	2	2	2	2	2	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Lead	0.44	0.07	0.13	0.19	0.29	0.08	0.50	0.16	0.02
Analysis Date:	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	7/11/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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QC Analysis Date: 07/11/18 **Job No:** 806067A
QC Lab ID: 807019-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

QC Analysis Date: 07/09/18
QC Lab ID: HC070918-1
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

METHOD: 7199

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Chromium(VI)	ND	1.00	93.4	93.4	0.0%	20	75-125

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CHAIN OF CUSTODY RECORD

806067

Job No.: 01217339.00 T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K. Green Email: kgreen@scsengineers

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Poss P.O. No.

SITE ADDRESS: 3041 Del Amo

SAMPLED BY: C. Nomanowski EDF

Turn Around Time NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081A OCPs				
1	Surface-1	6/18/18	1240	SO				1										X				
2	Surface-3		1250					2									X	X				
3	Surface-2		1300					1									X					
4	Surface-4		1310					1									X					
5	Surface-5		1320					1									X					
6	Surface-8		1325					2									X	X				
7	Surface-7		1330					1									X					
8	Surface-9		1340					1									X					
9	Surface-10		1400					2									X	X				
10	Surface-11		1410					1									X					
11	Surface-12		1420					1									X					
12	Surface-13		1430					2									X	X				
13	Surface-15		1445					2									X	X				
14	Surface-16		1500					1									X					
15	Surface-6		1525					2									X	X				
16	Surface-12		1510					2									X	X				

ANALYSIS REQUIRED

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Nomanowski	SCS	6/18/18	1740
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Marta	Chem	6/18/18	1740

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

Favorites
Archive
OUTSTA...
Sent Ite... 2
Aron Gust...
Inbox 3329
Add favorite
Folders
Inbox 3329
Junk ... 139
Drafts 1176
Sent Ite... 2
Deleted ... 1
Archive
Conversa...
lusc8202...
OUTSTA...
Notes...
royal air... 1
New folder

additional Hex Chrom analysis

HA

Hutchens, Ashley <AHutchens@SCSEngineers.com>
Thu 7/5/2018, 4:52 PM
Martin Lu (chemteklabs@hotmail.com); Romanowski, Christopher; Green, Kevin

Martin,

On a rush basis, can you please prep/analyze the following:

Please analyze the following samples for hexavalent chromium:
5/29/18 sample T6-0.5
6/20/18 sample SB2-10
6/19/18 samples SB3-5 and SB11-5
6/18/18 samples Surface 5, Surface 8, and Surface 12.

Please prep and analyze STLC/TCLP for lead for the following samples:
5/29/18 sample T1-9 and T6-0.5
5/30/18 sample B8 1-2
6/18/18 samples Surface 5, Surface 8, Surface 10, Surface 11, Surface 12, Surface 13, Surface 15, and Surface 16
6/19/18 sample SB3-5
6/20/18 sample SB7-5 and SB2-10
6/25/18 sample SB6-5 and SB8-5

Ashley P. Hutchens
Senior Project Manager
SCS Engineers
Direct: 562.637.4502
Cell: 562.572.4097
ahutchens@scsengineers.com | www.scsengineers.com

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LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806073A
Report Date: 07/13/18
Date Received: 06/19/18
Number of Samples: 19
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB3-5	06/19/18	806073-01A
SB3-10	06/19/18	806073-02A
SB3-15	06/19/18	806073-03A
SB3-20	06/19/18	806073-04A
SB3-25	06/19/18	806073-05A
SB3-30	06/19/18	806073-06A
SB3-35	06/19/18	806073-07A
SB3-40	06/19/18	806073-08A
SB11-5	06/19/18	806073-09A
SB11-10	06/19/18	806073-10A
SB11-15	06/19/18	806073-11A
SB11-20	06/19/18	806073-12A
SB11-25	06/19/18	806073-13A
SB11-30	06/19/18	806073-14A
SB12-5	06/19/18	806073-15A
SB12-10	06/19/18	806073-16A
SB12-15	06/19/18	806073-17A
SB12-20	06/19/18	806073-18A
SB12-25	06/19/18	806073-19A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: ###
###
###
EPA Method: 7199 Hexavalent Chromium
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or mg/Kg

Job No: 806073A
Report Date: 07/13/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

Client Sample ID:	SB3-5	SB11-5	Detection
Dilution Factor:	1	1	Limit
	mg/Kg	mg/Kg	mg/Kg
Hexavlent Chromium	0.151J	3.54	0.20
Analysis Date:	7/9/18	7/9/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Extraction Method STLC (W.E.T Method)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Job No: 806073A
Report Date: 07/13/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Aqueous(STLC Extract)

	Client Sample ID:	SB3-5	Detection
	Dilution Factor:	4	Limit
Analyte		(ppm)	(ppm)
Lead		4.74	0.02
	Analysis Date:	7/11/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:**

Date Received: 06/19/18
Sample Matrix: Aqueous(TCLP Extract)

	Client Sample ID:	SB3-5	Detection
	Dilution Factor:	2	Limit
Analyte		(ppm)	(ppm)
Lead		ND	0.02
	Analysis Date:	7/11/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806073
Report Date: 07/13/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

Sample ID	UNITS				Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB11-10	mg/kg				ND	1	5.0	ND	1	10
SB11-20	mg/kg				ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		06/19/18			06/19/18			06/19/18		
Analysis Date:					07/13/18			07/13/18		

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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QC Analysis Date: 07/11/18 **Job No:** 806073A
QC Lab ID: 807019-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

QC Analysis Date: 07/09/18
QC Lab ID: HC070918-1
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

METHOD: 7199

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Chromium(VI)	ND	1.00	93.4	93.4	0.0%	20	75-125

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CHAIN OF CUSTODY RECORD

806073

Job No.: 01217339.00

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE*	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8270 C SVOCs				Hold
1	SB3-5	6/19/18	748	SO				1			X						X	X				
2	SB3-10		750					1														X
3	SB3-15		753					1			X											
4	SB3-20		757					1														X
5	SB3-25		810					1			X											
6	SB3-30		814					1														X
7	SB3-35		830					4			X	X										
8	SB3-40		837					4			X	X										
9	SB11-5		915					1									X					
10	SB11-10		918					1														X
11	SB11-15		923					4				X										
12	SB11-20		930					4														X
13	SB11-25		943					1														X
14	SB11-30		950					1			X											
15	SB12-5		1318					1			X						X					
16	SB12-10		1321					1														X

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/19/18	1812
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:		CHM	6/19/18	1812

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

806073

Job No.: 01217 339.00

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way,

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Pass P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hold				
1	SB12-15	6/14/18	1323	SO				1			X											
2	SB12-20	↓	1326	|				1										X				
3	SB12-25	↓	1336	|				4			X	X										
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/14/18	1812
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chemt	6/14/18	1812

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806080
Report Date: 06/27/18
Date Received: 06/20/18
Number of Samples: 24
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB1-5	06/20/18	806080-01A
SB1-10	06/20/18	806080-02A
SB1-15	06/20/18	806080-03A
SB1-20	06/20/18	806080-04A
SB2-5	06/20/18	806080-05A
SB2-10	06/20/18	806080-06A
SB2-15	06/20/18	806080-07A
SB2-20	06/20/18	806080-08A
SB10-5	06/20/18	806080-09A
SB10-10	06/20/18	806080-10A
SB10-15	06/20/18	806080-11A
SB10-20	06/20/18	806080-12A
SB13-5	06/20/18	806080-13A
SB13-10	06/20/18	806080-14A
SB13-15	06/20/18	806080-15A
SB14-5	06/20/18	806080-16A
SB14-10	06/20/18	806080-17A
SB14-15	06/20/18	806080-18A
SB7-5	06/20/18	806080-19A
SB7-10	06/20/18	806080-20A
SB7-15	06/20/18	806080-21A
SB7-20	06/20/18	806080-22A
SB7-25	06/20/18	806080-23A
SB7-30	06/20/18	806080-24A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806080

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB1-20	6/20/2018	SB2-10	6/20/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1.1	2.2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1	1
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1	50
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1	10
Analysis Date:	06/20/18				06/20/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806080

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB10-20	6/20/2018	SB13-5	6/20/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	270	µg/kg	4	4
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	4	4
Bromoform	ND	µg/kg	1	1	ND	µg/kg	4	4
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	4	4
n-Butylbenzene	ND	µg/kg	1	1	9.84	µg/kg	4	4
sec-Butylbenzene	ND	µg/kg	1	1	6.67	µg/kg	4	4
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	4	4
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
Chloroform	ND	µg/kg	1	1	ND	µg/kg	4	4
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	4	4
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	4	4
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	4	4
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	4	8
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	4	4
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	4	4
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	4	4
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	4	4
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	4	4
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	4	4
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	4	4
Ethylbenzene	ND	µg/kg	1	1	166	µg/kg	4	4
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	4	4
Isopropylbenzene	ND	µg/kg	1	1	11.2	µg/kg	4	4
4-Isopropyltoluene	ND	µg/kg	1	1	5.07	µg/kg	4	4
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	4	20
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	4	4
n-propylbenzene	ND	µg/kg	1	1	36.7	µg/kg	4	4
Styrene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	4	4
Toluene	ND	µg/kg	1	1	7.79	µg/kg	4	4
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	4	4
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	4	4
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	4	4
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	250	µg/kg	4	4
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	85.1	µg/kg	4	4
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	4	4
Total Xylenes	ND	µg/kg	1	2	510	µg/kg	4	8
Ethanol	ND	µg/kg	1	250	ND	µg/kg	4	1000
MTBE	ND	µg/kg	1	1	160	µg/kg	4	4
ETBE	ND	µg/kg	1	1	ND	µg/kg	4	4
DIPE	ND	µg/kg	1	1	ND	µg/kg	4	4
TAME	ND	µg/kg	1	1	ND	µg/kg	4	4
TBA	ND	µg/kg	1	50	650	µg/kg	4	200
MEK	ND	µg/kg	1	10	ND	µg/kg	4	40
MIBK	ND	µg/kg	1	10	ND	µg/kg	4	40
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	4	40
Analysis Date:	06/20/18				06/20/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806080

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB14-15	6/20/2018	SB7-10	6/20/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	5	5
Bromoform	ND	µg/kg	1	1	ND	µg/kg	5	5
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	5	5
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	5	5
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
Chloroform	ND	µg/kg	1	1	ND	µg/kg	5	5
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	5	5
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	5	5
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	5	5
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	5	10
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	5	5
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	5	5
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	5	5
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	5	5
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	5	5
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	5	5
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	5	5
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	5	5
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	5	5
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	5	25
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	5	5
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Styrene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	5	5
Toluene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	5	5
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	5	5
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	5	5
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	6.86	µg/kg	5	5
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	5	5
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	5	5
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	5	10
Ethanol	ND	µg/kg	1	250	ND	µg/kg	5	1250
MTBE	ND	µg/kg	1	1	ND	µg/kg	5	5
ETBE	ND	µg/kg	1	1	ND	µg/kg	5	5
DIPE	ND	µg/kg	1	1	ND	µg/kg	5	5
TAME	ND	µg/kg	1	1	ND	µg/kg	5	5
TBA	ND	µg/kg	1	50	890	µg/kg	5	250
MEK	ND	µg/kg	1	10	ND	µg/kg	5	50
MIBK	ND	µg/kg	1	10	ND	µg/kg	5	50
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	5	50
Analysis Date:	06/20/18				06/20/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806080

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date			Sample ID	Sample Date		
Project No.	**SB7-20**	**6/20/2018**			**SB7-30**	**6/20/2018**		
Analyte	**Results**	**Units**	**DF**	**DLR**	**Results**	**Units**	**DF**	**DLR**
Benzene	ND	µg/kg	12	12	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	12	12	ND	µg/kg	1	1
Bromoform	ND	µg/kg	12	12	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	12	12	ND	µg/kg	1	1
n-Butylbenzene	131	µg/kg	12	12	ND	µg/kg	1	1
sec-Butylbenzene	414	µg/kg	12	12	ND	µg/kg	1	1
tert-Butylbenzene	43.6	µg/kg	12	12	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	12	12	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
Chloroform	ND	µg/kg	12	12	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	12	12	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	12	12	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	12	12	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	12	24	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	12	12	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	12	12	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	12	12	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	12	12	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	12	12	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	12	12	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	12	12	ND	µg/kg	1	1
Ethylbenzene	470	µg/kg	12	12	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	12	12	ND	µg/kg	1	1
Isopropylbenzene	437	µg/kg	12	12	ND	µg/kg	1	1
4-Isopropyltoluene	31.4	µg/kg	12	12	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	12	60	ND	µg/kg	1	5
Naphthalene	700	µg/kg	12	12	ND	µg/kg	1	1
n-propylbenzene	481	µg/kg	12	12	ND	µg/kg	1	1
Styrene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	12	12	ND	µg/kg	1	1
Toluene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	12	12	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	12	12	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	12	12	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	37.6	µg/kg	12	12	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	12	12	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	12	12	ND	µg/kg	1	1
Total Xylenes	100	µg/kg	12	24	ND	µg/kg	1	2
Ethanol	ND	µg/kg	12	3000	ND	µg/kg	1	250
MTBE	ND	µg/kg	12	12	ND	µg/kg	1	1
ETBE	ND	µg/kg	12	12	ND	µg/kg	1	1
DIPE	ND	µg/kg	12	12	ND	µg/kg	1	1
TAME	ND	µg/kg	12	12	ND	µg/kg	1	1
TBA	ND	µg/kg	12	600	80.6	µg/kg	1	50
MEK	ND	µg/kg	12	120	ND	µg/kg	1	10
MIBK	ND	µg/kg	12	120	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	12	120	ND	µg/kg	1	10
Analysis Date:	06/20/18				06/27/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806080
Report Date: 06/27/18
Date of Sample: 06/20/18
Date Received: 06/20/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB1-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB1-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB2-5	mg/kg	0.48	1	0.20	233	1	5.0	275	1	10
SB2-10	mg/kg	ND	1	0.20	136	1	5.0	55.1	1	10
SB2-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB2-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB10-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB10-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB10-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB13-5	mg/kg	11.4	4	0.80	ND	1	5.0	ND	1	10
SB13-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB13-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB14-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB14-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB7-5	mg/kg	ND	1	0.20	547	1	5.0	655	1	10
SB7-10	mg/kg	7.91	5	1.00	1,640	1	5.0	924	1	10
SB7-15	mg/kg	12.8	1	0.20	1,940	1	5.0	2,800	1	10
SB7-20	mg/kg	517	12	2.40	24,400	20	100	10,700	20	200
SB7-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		06/20/18			06/20/18			06/20/18		
Analysis Date:		06/20-27/18			06/22/18			06/22/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806080
Report Date: 06/27/18
Date of Sample: 06/20/18
Date Received: 06/20/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB2-10	SB10-5	SB13-5	SB13-15	SB14-5	SB7-5	SB7-10	SB7-15	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	4.59	3.56	ND	9.15	2.00
Barium	275	58.1	175	8.68	29.9	300	179	152	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	169	9.50	20.3	6.28	17.8	70.9	5.09	28.0	1.00
Cobalt	5.96	2.80	10.7	ND	4.33	6.06	ND	19.0	2.00
Copper	80.2	9.88	23.8	2.17	6.92	68.9	8.77	538	2.00
Lead	392	2.04	9.28	ND	ND	344	24.3	41.8	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	47.4	4.66	16.8	3.60	14.8	46.0	21.8	198	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	74.3	14.5	45.3	7.88	30.3	66.8	28.5	7.66	2.00
Zinc	217	13.7	41.5	5.47	19.5	198	38.9	409	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB2-10	SB10-5	SB13-5	SB13-15	SB14-5	SB7-5	SB7-10	SB7-15	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8082 PCBs
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or ug/Kg

Job No: 806080
Report Date: 06/27/18
Date of Sample: 06/20/18
Date Received: 06/20/18
Sample Matrix: Soil

	Client Sample ID:	SB2-10	SB7-10	SB7-15	Detection
	Dilution Factor:	5	2	1	Limit
		ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCB 1016		ND	ND	ND	50.0
PCB 1221		ND	ND	ND	50.0
PCB 1232		ND	ND	ND	50.0
PCB 1242		ND	ND	ND	50.0
PCB 1248		ND	ND	ND	50.0
PCB 1254		ND	ND	ND	50.0
PCB 1260		651	ND	ND	50.0
PCB 1262		ND	ND	ND	50.0
PCB 1268		ND	ND	ND	50.0
	Analysis Date:	6/21/18	6/21/18	6/21/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers **Project No.** **Job No:** 806080
Sample Matrix: Soil **Project Site:** North Posse **Report Date:** 06/27/18
Date of Sample: 06/20/18
EPA Method: 8270C **Units:** ppb or µg/kg **Date Received:** 06/20/18

Client Sample ID:	SB2-10	SB13-5	SB7-5	SB7-20	SB7-30	Detection
Dilution Factor:	1	1	1	1	1	Limit
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	(ppb)
Phenol	ND	ND	ND	ND	ND	200
bis(2-Chloroethyl)Ether	ND	ND	ND	ND	ND	200
2-Chlorophenol	ND	ND	ND	ND	ND	200
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	200
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	200
Benzyl alcohol	ND	ND	ND	ND	ND	200
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	200
2-Methylphenol(O-cresol)	ND	ND	ND	ND	ND	200
bis(2-Chloroisopropyl)Ether	ND	ND	ND	ND	ND	200
n-Nitroso-di-n-Propylamine	ND	ND	ND	ND	ND	200
4-Methylphenol(P-cresol)	ND	ND	ND	ND	ND	200
Hexachloroethane	ND	ND	ND	ND	ND	200
Nitrobenzene	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	200
2-Nitrophenol	ND	ND	ND	ND	ND	200
2,4-Dimethylphenol	ND	ND	ND	ND	ND	200
bis(2-Chloroethoxy) Methane	ND	ND	ND	ND	ND	200
2,4-Dichlorophenol	ND	ND	ND	ND	ND	400
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	200
Naphthalene	ND	ND	ND	ND	ND	200
4-Chloroaniline	ND	ND	ND	ND	ND	200
Hexachlorobutadiene	ND	ND	ND	ND	ND	200
4-Chloro-3-Methylphenol	ND	ND	ND	ND	ND	200
2-Methlynaphthalene	ND	ND	ND	ND	ND	200
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	200
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	200
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	200
2-Chloronaphthalene	ND	ND	ND	ND	ND	200
2-Nitroaniline	ND	ND	ND	ND	ND	200
Dimethyl Phthalate	ND	ND	ND	ND	ND	200
Acenaphthylene	ND	ND	ND	ND	ND	200
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	200
3-Nitroaniline	ND	ND	ND	ND	ND	200
Carbazole	ND	ND	ND	ND	ND	200
Benzoic Acid	ND	ND	ND	ND	ND	800
Acenaphthene	ND	ND	ND	ND	ND	200
2,4-Dinitrophenol	ND	ND	ND	ND	ND	200
Dibenzofuran	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	200
Fluorene	ND	ND	ND	ND	ND	200
Diethyl Phthalate	ND	ND	ND	ND	ND	200
4-Chlorophenyl Phenyl Ether	ND	ND	ND	ND	ND	200
4-Nitroaniline	ND	ND	ND	ND	ND	200
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	400
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	200
4-Bromophenyl Phenyl Ether	ND	ND	ND	ND	ND	200
Hexachlorobenzene(total)	ND	ND	ND	ND	ND	200
Pentachlorophenol	ND	ND	ND	ND	ND	400
Phenanthrene	ND	ND	ND	ND	ND	200
Anthracene	ND	ND	ND	ND	ND	200
Di-n-Butyl Phthalate	ND	ND	ND	ND	ND	200
Fluoranthene	ND	ND	ND	ND	ND	200
Pyrene	ND	ND	282	3,090	ND	200
Butyl Benzyl Phthalate	ND	ND	ND	ND	ND	200
Benzo(a)anthracene	ND	ND	ND	ND	ND	200
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	200
Chrysene	ND	ND	ND	ND	ND	200
bis(2-Ethylhexyl) Phthalate	ND	ND	ND	259	ND	200
Di-N-Octyl Phthalate	ND	ND	ND	ND	ND	200
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	200
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	200
Benzo(a)pyrene	ND	ND	ND	ND	ND	200
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	200
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	200
Benzo(g,h,i)perylene	884	ND	ND	ND	ND	200
N-Nitrosodiemethylamine	ND	ND	ND	ND	ND	200
Pyridine	ND	ND	ND	ND	ND	200
Aniline	ND	ND	ND	ND	ND	200
Benzidine	ND	ND	ND	ND	ND	200
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/27/18 **Job No:** 806080
QC Lab ID: 806102-1A
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	120.0	111.6	7.3%	30	70-130
Benzene	ND	25	127.8	117.4	8.5%	30	70-130
Trichloroethylene	ND	25	129.6	125.2	3.5%	30	70-130
Toluene	ND	25	118.8	118.4	0.3%	30	70-130
Chlorobenzene	ND	25	124.1	124.9	0.6%	30	70-130

QC Analysis Date: 06/27/18
QC Lab ID: 806102-1A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	110.4	121.7	9.7%	30	70-130

QC Analysis Date: 06/22/18
QC Lab ID: 806080-1A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	84.6	94.9	11.5%	30	70-130

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QC Analysis Date: 06/20/18
QC Lab ID: 806056-1A
Units: ppm
Job No: 806080

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	101.0	103.0	2.0%	30	70-130
Arsenic	ND	1.00	109.0	105.0	3.7%	30	70-130
Barium	ND	1.00	98.0	97.0	1.0%	30	70-130
Beryllium	ND	1.00	97.0	99.0	2.0%	30	70-130
Cadmium	ND	1.00	99.0	100.0	1.0%	30	70-130
Chromium	ND	1.00	98.0	101.0	3.0%	30	70-130
Cobalt	ND	1.00	98.0	101.0	3.0%	30	70-130
Copper	ND	1.00	98.0	97.0	1.0%	30	70-130
Lead	ND	1.00	100.0	102.0	2.0%	30	70-130
Molybdenum	ND	1.00	98.0	101.0	3.0%	30	70-130
Nickel	ND	1.00	100.0	100.0	0.0%	30	70-130
Selenium	ND	1.00	102.0	105.0	2.9%	30	70-130
Silver	ND	1.00	95.0	93.0	2.1%	30	70-130
Thallium	ND	1.00	105.0	106.0	0.9%	30	70-130
Vanadium	ND	1.00	103.0	104.0	1.0%	30	70-130
Zinc	ND	1.00	101.0	104.0	2.9%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

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CHAIN OF CUSTODY RECORD

806080

Job No.: 01217339

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Kevin Green Email: Kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way, Suite 100

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis North Perris P.O. No.

SITE ADDRESS:

SAMPLED BY: EDF

Turn Around Time NORM 24 hr 48 hr ✓ Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	Title 22 ~~CAM 17~~ Metals	Archive / Hold	SVOCs	PCBs		
1	SB1-5	6/20/18	830	SOIL				1			X											
2	SB1-10		837					1										X				
3	SB1-15		844					4										X				
4	SB1-20		856					4			X	X										
5	SB2-5		~~905~~ 939					1			X											
6	SB2-10		945					4			X	X					X		X	X		
7	SB2-15		954					1			X											
8	SB2-20		1004					4			X											
9	SB10-5		1025					1			X						X					
10	SB10-10		1031					1										X		X		
11	SB10-15		1035					4			X											
12	SB10-20		1050					4			X	X										
13	SB13-5		1135					4			X	X					X		X			
14	SB13-10		1140					1			X											
15	SB13-15		1148					1			X						X					
16	SB14-5	↓	1200	↓				1			X						X					

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	TRI NGUYEN	SCS Engineers	6/20/18	1648
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Client	6/20/18	1648

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
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CHAIN OF CUSTODY RECORD

806080

Job No.: 01217339

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: Kevin Green Email: Kgreen@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way-Suite 100
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis North Park P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☑ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	Title 22 ~~CAM 17~~ Metals	Hold	SVOCs	PCBs		
1	SD14-10	6/20/18	1205	SOIL				1										X				
2	SB14-15		1213					4			X	X										
3	SB7-5		1345					1	X		X						X		X			
4	SB7-10		1352					4			X	X					X			X		
5	SB7-15		1359					1			X						X			X		
6	SD7-20		1408					4			X	X							X			
7	SB7-25		1419					1										X				
8	SB7-30	↓	1436	↓				4			X	X							X			
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		TRI NGUYEN	SCS Engineers	6/20/18	1648
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:					

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806080A
Report Date: 07/11/18
Date Received: 06/20/18
Number of Samples: 24
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB1-5	06/20/18	806080-01A
SB1-10	06/20/18	806080-02A
SB1-15	06/20/18	806080-03A
SB1-20	06/20/18	806080-04A
SB2-5	06/20/18	806080-05A
SB2-10	06/20/18	806080-06A
SB2-15	06/20/18	806080-07A
SB2-20	06/20/18	806080-08A
SB10-5	06/20/18	806080-09A
SB10-10	06/20/18	806080-10A
SB10-15	06/20/18	806080-11A
SB10-20	06/20/18	806080-12A
SB13-5	06/20/18	806080-13A
SB13-10	06/20/18	806080-14A
SB13-15	06/20/18	806080-15A
SB14-5	06/20/18	806080-16A
SB14-10	06/20/18	806080-17A
SB14-15	06/20/18	806080-18A
SB7-5	06/20/18	806080-19A
SB7-10	06/20/18	806080-20A
SB7-15	06/20/18	806080-21A
SB7-20	06/20/18	806080-22A
SB7-25	06/20/18	806080-23A
SB7-30	06/20/18	806080-24A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client:	SCS Engineers	**Project No.**	01217339.00 T3	**Job No:**	806080A
	3900 Kilroy Airport Way	**Project Site:**	North Posse	**Report Date:**	07/11/18
	Long Beach, CA			**Date of Sample:**	06/20/18
EPA Method:	7199 Hexavalent Chromium			**Date Received:**	06/20/18
Attention:		**Units:**	ppb or mg/Kg	**Sample Matrix:**	Soil

	Client Sample ID:	SB2-10	Detection
	Dilution Factor:	1	Limit
		mg/Kg	mg/Kg
Hexavlent Chromium		0.162J	0.20

Analysis Date: 7/9/18

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Job No: 806080A
Report Date: 07/11/18
Date of Sample: 06/20/18
Date Received: 06/20/18
Sample Matrix: Aqueous(STLC Extract)
Extraction Method STLC (W.E.T Method)
Extraction Date 7/9/2018
EPA Method: 6010B Metals
Units: ppm or mg/l

Client Sample ID:	SB7-5	SB2-10	Detection
Dilution Factor:	4	4	Limit
Analyte	**(ppm)**	**(ppm)**	**(ppm)**
Lead	16.1	4.69	0.02
Analysis Date:	7/11/18	7/11/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 7/9/2018
EPA Method: 6010B Metals
Date Received: 06/20/18
Sample Matrix: Aqueous(TCLP Extract)
Units: ppm or mg/l

Client Sample ID:	SB7-5	SB2-10	Detection
Dilution Factor:	2	2	Limit
Analyte	**(ppm)**	**(ppm)**	**(ppm)**
Lead	0.28	ND	0.02
Analysis Date:	7/11/18	7/11/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 07/11/18 **Job No:** 806080A
QC Lab ID: 807019-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

QC Analysis Date: 07/09/18
QC Lab ID: HC070918-1
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

METHOD: 7199

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Chromium(VI)	ND	1.00	93.4	93.4	0.0%	20	75-125

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

806080

Job No.: 01217339

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: Kevin Green Email: Kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way, Suite 100

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis North Perris P.O. No.

SITE ADDRESS:

SAMPLED BY: EDF

Turn Around Time NORM 24 hr 48 hr ✓ Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	Title 22 ~~CAM 17~~ Metals	Archive / Hold	SVOCs	PCBs		
1	SB1-5	6/20/18	830	SOIL				1			X											
2	SB1-10		837					1										X				
3	SB1-15		844					4										X				
4	SB1-20		856					4			X	X										
5	SB2-5		~~905~~ 939					1			X											
6	SB2-10		945					4			X	X					X		X	X		
7	SB2-15		954					1			X											
8	SB2-20		1004					4			X											
9	SB10-5		1025					1			X						X					
10	SB10-10		1031					1										X		X		
11	SB10-15		1035					4			X											
12	SB10-20		1050					4			X	X										
13	SB13-5		1135					4			X	X					X		X			
14	SB13-10		1140					1			X											
15	SB13-15		1148					1			X						X					
16	SB14-5	↓	1200	↓				1			X						X					

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	TRI NGUYEN	SCS Engineers	6/20/18	1648
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Client	6/20/18	1648

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

806080

Job No.: 01217339

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers
PROJECT CONTACT: Kevin Green Email: Kgreen@scsengineers.com
ADDRESS: 3900 Kilroy Airport Way-Suite 100
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Prologis North Park P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☑ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	Title 22 ~~CAM 17~~ Metals	Hold	SVOCs	PCBs		
1	SD14-10	6/20/18	1205	SOIL				1										X				
2	SB14-15		1213					4			X	X										
3	SB7-5		1345					1	X		X						X		X			
4	SB7-10		1352					4			X	X					X			X		
5	SB7-15		1359					1			X						X			X		
6	SD7-20		1408					4			X	X							X			
7	SB7-25		1419					1										X				
8	SB7-30	↓	1436	↓				4			X	X							X			
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		TRI NGUYEN	SCS Engineers	6/20/18	1648
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:					

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

Favorites
Archive
OUTSTA...
Sent Ite... 2
Aron Gust...
Inbox 3329
Add favorite
Folders
Inbox 3329
Junk ... 139
Drafts 1176
Sent Ite... 2
Deleted ... 1
Archive
Conversa...
lusc8202...
OUTSTA...
Notes...
royal air... 1
New folder

additional Hex Chrom analysis

HA

Hutchens, Ashley <AHutchens@SCSEngineers.com>
Thu 7/5/2018, 4:52 PM
Martin Lu (chemteklabs@hotmail.com); Romanowski, Christopher; Green, Kevin

Martin,

On a rush basis, can you please prep/analyze the following:

Please analyze the following samples for hexavalent chromium:
5/29/18 sample T6-0.5
6/20/18 sample SB2-10
6/19/18 samples SB3-5 and SB11-5
6/18/18 samples Surface 5, Surface 8, and Surface 12.

Please prep and analyze STLC/TCLP for lead for the following samples:
5/29/18 sample T1-9 and T6-0.5
5/30/18 sample B8 1-2
6/18/18 samples Surface 5, Surface 8, Surface 10, Surface 11, Surface 12, Surface 13, Surface 15, and Surface 16
6/19/18 sample SB3-5
6/20/18 sample SB7-5 and SB2-10
6/25/18 sample SB6-5 and SB8-5

Ashley P. Hutchens
Senior Project Manager
SCS Engineers
Direct: 562.637.4502
Cell: 562.572.4097
ahutchens@scsengineers.com | www.scsengineers.com

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LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806095
Report Date: 07/02/18
Date Received: 06/21/18
Number of Samples: 32
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB18-5	06/21/18	806095-01A
SB18-10	06/21/18	806095-02A
SB18-15	06/21/18	806095-03A
SB18-20	06/21/18	806095-04A
SB19-5	06/21/18	806095-05A
SB19-10	06/21/18	806095-06A
SB19-15	06/21/18	806095-07A
SB19-20	06/21/18	806095-08A
SB19-25	06/21/18	806095-09A
SB19-30	06/21/18	806095-10A
SB19-35	06/21/18	806095-11A
SB17-5	06/21/18	806095-12A
SB17-10	06/21/18	806095-13A
SB17-15	06/21/18	806095-14A
SB17-20	06/21/18	806095-15A
SB17-25	06/21/18	806095-16A
SB17-30	06/21/18	806095-17A
SB17-35	06/21/18	806095-18A
SB17-40	06/21/18	806095-19A
SB16-5	06/21/18	806095-20A
SB16-10	06/21/18	806095-21A
SB16-15	06/21/18	806095-22A
SB16-20	06/21/18	806095-23A
SB16-25	06/21/18	806095-24A
SB16-30	06/21/18	806095-25A
SB15-5	06/21/18	806095-26A
SB15-10	06/21/18	806095-27A
SB15-15	06/21/18	806095-28A
SB15-20	06/21/18	806095-29A
SB15-25	06/21/18	806095-30A
SB15-30	06/21/18	806095-31A
SB15-35	06/21/18	806095-32A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806095

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB18-5	6/21/2018	SB19-35	6/21/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/25/18				06/27/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806095

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB17-30	6/21/2018	SB17-40	6/21/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	7.63	µg/kg	1	1	14.8	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	2.59	µg/kg	1	1	8.98	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	2.09	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	2.18	µg/kg	1	2	3.26	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/26/18				06/26/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806095

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB16-25	6/21/2018	SB16-30	6/21/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	80.6	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/27/18				06/27/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806095

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB15-25	6/21/2018	SB15-30	6/21/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/26/18				06/27/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806095

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date
Project No.	SB15-35	6/21/2018

Analyte	Results	Units	DF	DLR
Benzene	22.2	µg/kg	0.9	0.9
Bromobenzene	ND	µg/kg	0.9	0.9
Bromochloromethane	ND	µg/kg	0.9	0.9
Bromoform	ND	µg/kg	0.9	0.9
Bromomethane	ND	µg/kg	0.9	0.9
n-Butylbenzene	ND	µg/kg	0.9	0.9
sec-Butylbenzene	ND	µg/kg	0.9	0.9
tert-Butylbenzene	ND	µg/kg	0.9	0.9
Carbon Tetrachloride	ND	µg/kg	0.9	0.9
Chlorobenzene	ND	µg/kg	0.9	0.9
Chloroethane	ND	µg/kg	0.9	0.9
Chloroform	ND	µg/kg	0.9	0.9
Chloromethane	ND	µg/kg	0.9	0.9
2-Chlorotoluene	ND	µg/kg	0.9	0.9
4-Chlorotoluene	ND	µg/kg	0.9	0.9
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8
Dibromochloromethane	ND	µg/kg	0.9	0.9
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9
Dibromomethane	ND	µg/kg	0.9	0.9
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethane	ND	µg/kg	0.9	0.9
1,2-Dichloroethane	ND	µg/kg	0.9	0.9
1,1-Dichloroethene	ND	µg/kg	0.9	0.9
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9
1,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,3-Dichloropropane	ND	µg/kg	0.9	0.9
2,2-Dichloropropane	ND	µg/kg	0.9	0.9
1,1-Dichloropropene	ND	µg/kg	0.9	0.9
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9
trans-1,3-Dichloproene	ND	µg/kg	0.9	0.9
Ethylbenzene	2.93	µg/kg	0.9	0.9
Hexachlorobutadiene	ND	µg/kg	0.9	0.9
Isopropylbenzene	ND	µg/kg	0.9	0.9
4-Isopropyltoluene	ND	µg/kg	0.9	0.9
Methylene Chloride	ND	µg/kg	0.9	4.5
Naphthalene	9.20	µg/kg	0.9	0.9
n-propylbenzene	ND	µg/kg	0.9	0.9
Styrene	ND	µg/kg	0.9	0.9
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9
Toluene	3.47	µg/kg	0.9	0.9
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9
Trichlorofluoromethane	ND	µg/kg	0.9	0.9
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9
1,2,4-Trimethylbenzene	12.9	µg/kg	0.9	0.9
1,3,5-Trimethylbenzene	4.55	µg/kg	0.9	0.9
Vinyl Chloride	ND	µg/kg	0.9	0.9
Total Xylenes	27.9	µg/kg	0.9	1.8
Ethanol	ND	µg/kg	0.9	225
MTBE	11.8	µg/kg	0.9	0.9
ETBE	ND	µg/kg	0.9	0.9
DIPE	ND	µg/kg	0.9	0.9
TAME	ND	µg/kg	0.9	0.9
TBA	ND	µg/kg	0.9	45
MEK	ND	µg/kg	0.9	9
MIBK	ND	µg/kg	0.9	9
2-Hexanone	ND	µg/kg	0.9	9

Analysis Date: 07/02/18

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806095
Report Date: 07/02/18
Date of Sample: 06/21/18
Date Received: 06/21/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB18-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB19-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB19-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB19-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB19-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB17-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB16-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB16-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB16-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB15-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB15-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB15-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB15-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB15-35	mg/kg	2.66	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		06/21/18			06/21/18			06/21/18		
Analysis Date:		06/25-27/18 7/2/2018			06/25/18			06/25/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806095
Report Date: 07/02/18
Date of Sample: 06/21/18
Date Received: 06/21/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB18-5	SB18-20	SB19-5	SB17-5	SB17-40	SB15-5	SB15-10	SB15-35	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	20.0	21.3	44.5	31.4	12.6	54.7	18.1	10.7	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	7.88	17.7	10.2	9.50	8.61	10.2	10.0	8.23	1.00
Cobalt	2.06	3.22	ND	3.24	2.42	3.91	2.28	2.08	2.00
Copper	4.40	4.32	6.44	5.44	3.29	7.31	4.58	3.11	2.00
Lead	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	3.63	8.21	5.60	4.82	5.92	5.89	4.36	5.68	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	9.60	13.9	12.6	13.2	10.0	14.9	13.4	10.7	2.00
Zinc	ND	7.56	8.54	7.32	8.81	11.7	5.09	8.86	5.00
Analysis Date:	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB18-5	SB18-20	SB19-5	SB17-5	SB17-40	SB15-5	SB15-10	SB15-35	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	6/25/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

CHEMTEK
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F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse

Units: ppb or µg/kg

Job No: 806095
Report Date: 07/02/18
Date of Sample: 06/21/18
Date Received: 06/21/18
Sample Matrix: Soil

Client Sample ID:	SB18-5	SB17-5	SB15-5	Detection
Dilution Factor:	1	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	ND	2.0
Chlordane (total)	ND	ND	ND	2.0
Chlordane (alpha)	ND	ND	ND	2.0
4,4'-DDD	ND	ND	ND	2.0
4,4'-DDE	ND	ND	ND	2.0
4,4'-DDT	ND	ND	ND	2.0
Dieldrin	ND	ND	ND	2.0
Endosulfan I	ND	ND	ND	2.0
Endosulfan II	ND	ND	ND	2.0
Endosulfan Sulfate	ND	ND	ND	2.0
Endrin	ND	ND	ND	2.0
Endrin aldehyde	ND	ND	ND	2.0
Endrin ketone	ND	ND	ND	2.0
Chlordane (gamma)	ND	ND	ND	2.0
Heptachlor	ND	ND	ND	2.0
Heptachlor epoxide	ND	ND	ND	2.0
Alpha-BHC	ND	ND	ND	2.0
Betta-BHC	ND	ND	ND	2.0
Delta-BHC	ND	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	ND	2.0
Methoxychlor	ND	ND	ND	10.0
Toxaphene	ND	ND	ND	170.0
Analysis Date:	6/27/18	6/27/18	6/27/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers | **Project No.** | **Job No:** 806095
Sample Matrix: Soil | **Project Site:** North Posse | **Report Date:** 07/02/18
Date of Sample: 06/21/18
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 06/21/18

Client Sample ID:	SB19-5	SB19-35	SB17-40	SB16-30	SB15-35	Detection
Dilution Factor:	1	1	1	1	1	Limit
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	(ppb)
Phenol	ND	ND	ND	ND	ND	200
bis(2-Chloroethyl)Ether	ND	ND	ND	ND	ND	200
2-Chlorophenol	ND	ND	ND	ND	ND	200
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	200
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	200
Benzyl alcohol	ND	ND	ND	ND	ND	200
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	200
2-Methylphenol(O-cresol)	ND	ND	ND	ND	ND	200
bis(2-Chloroisopropyl)Ether	ND	ND	ND	ND	ND	200
n-Nitroso-di-n-Propylamine	ND	ND	ND	ND	ND	200
4-Methylphenol(P-cresol)	ND	ND	ND	ND	ND	200
Hexachloroethane	ND	ND	ND	ND	ND	200
Nitrobenzene	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	200
2-Nitrophenol	ND	ND	ND	ND	ND	200
2,4-Dimethylphenol	ND	ND	ND	ND	ND	200
bis(2-Chloroethoxy) Methane	ND	ND	ND	ND	ND	200
2,4-Dichlorophenol	ND	ND	ND	ND	ND	400
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	200
Naphthalene	ND	ND	ND	ND	ND	200
4-Chloroaniline	ND	ND	ND	ND	ND	200
Hexachlorobutadiene	ND	ND	ND	ND	ND	200
4-Chloro-3-Methylphenol	ND	ND	ND	ND	ND	200
2-Methlynaphthalene	ND	ND	ND	ND	ND	200
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	200
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	200
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	200
2-Chloronaphthalene	ND	ND	ND	ND	ND	200
2-Nitroaniline	ND	ND	ND	ND	ND	200
Dimethyl Phthalate	ND	ND	ND	ND	ND	200
Acenaphthylene	ND	ND	ND	ND	ND	200
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	200
3-Nitroaniline	ND	ND	ND	ND	ND	200
Carbazole	ND	ND	ND	ND	ND	200
Benzoic Acid	ND	ND	ND	ND	ND	800
Acenaphthene	ND	ND	ND	ND	ND	200
2,4-Dinitrophenol	ND	ND	ND	ND	ND	200
Dibenzofuran	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	200
Fluorene	ND	ND	ND	ND	ND	200
Diethyl Phthalate	ND	ND	ND	ND	ND	200
4-Chlorophenyl Phenyl Ether	ND	ND	ND	ND	ND	200
4-Nitroaniline	ND	ND	ND	ND	ND	200
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	400
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	200
4-Bromophenyl Phenyl Ether	ND	ND	ND	ND	ND	200
Hexachlorobenzene(total)	ND	ND	ND	ND	ND	200
Pentachlorophenol	ND	ND	ND	ND	ND	400
Phenanthrene	ND	ND	ND	ND	ND	200
Anthracene	ND	ND	ND	ND	ND	200
Di-n-Butyl Phthalate	ND	ND	ND	ND	ND	200
Fluoranthene	ND	ND	ND	ND	ND	200
Pyrene	ND	ND	ND	ND	ND	200
Butyl Benzyl Phthalate	ND	ND	ND	ND	ND	200
Benzo(a)anthracene	ND	ND	ND	ND	ND	200
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	200
Chrysene	ND	ND	ND	ND	ND	200
bis(2-Ethylhexyl) Phthalate	ND	ND	ND	ND	ND	200
Di-N-Octyl Phthalate	ND	ND	ND	ND	ND	200
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	200
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	200
Benzo(a)pyrene	ND	ND	ND	ND	ND	200
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	200
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	200
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	200
N-Nitrosodiemethylamine	ND	ND	ND	ND	ND	200
Pyridine	ND	ND	ND	ND	ND	200
Aniline	ND	ND	ND	ND	ND	200
Benzidine	ND	ND	ND	ND	ND	200
Analysis Date:	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/25/18 **Job No:** 806095
QC Lab ID: LCS,LCSD
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	90.2	98.4	8.7%	30	70-130
Benzene	ND	25	107.6	95.4	12.0%	30	70-130
Trichloroethylene	ND	25	115.9	103.2	11.6%	30	70-130
Toluene	ND	25	108.9	90.6	18.3%	30	70-130
Chlorobenzene	ND	25	104.6	83.9	22.0%	30	70-130

QC Analysis Date: 07/02/18
QC Lab ID: LCS,LCSD
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	118.8	117.2	1.4%	30	70-130

QC Analysis Date: 06/25/18
QC Lab ID: 806095-1A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	94.7	102.2	7.6%	30	70-130

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QC Analysis Date: 06/25/18 **Job No:** 806095
QC Lab ID: 806094-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	104.0	106.0	1.9%	30	70-130
Arsenic	ND	1.00	103.0	107.0	3.8%	30	70-130
Barium	ND	1.00	102.0	99.0	3.0%	30	70-130
Beryllium	ND	1.00	101.0	102.0	1.0%	30	70-130
Cadmium	ND	1.00	105.0	106.0	0.9%	30	70-130
Chromium	ND	1.00	102.0	106.0	3.8%	30	70-130
Cobalt	ND	1.00	102.0	103.0	1.0%	30	70-130
Copper	ND	1.00	98.0	101.0	3.0%	30	70-130
Lead	ND	1.00	102.0	105.0	2.9%	30	70-130
Molybdenum	ND	1.00	103.0	105.0	1.9%	30	70-130
Nickel	ND	1.00	105.0	104.0	1.0%	30	70-130
Selenium	ND	1.00	105.0	106.0	0.9%	30	70-130
Silver	ND	1.00	112.0	116.0	3.5%	30	70-130
Thallium	ND	1.00	106.0	107.0	0.9%	30	70-130
Vanadium	ND	1.00	103.0	105.0	1.9%	30	70-130
Zinc	ND	1.00	105.0	106.0	0.9%	30	70-130

CHAIN OF CUSTODY RECORD

806015

SCS ENGINEERS

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816
Phone 562 426-9544 Fax 562 427-0805

TOTAL NUMBER OF SAMPLES: 32
PAGE 1 OF 3
TURNAROUND TIME REQUIRED: ☐ Std. ☐ 3-Day ☐ 24-Hr. ☒ Other 48-Hr
PROJECT MANAGER: Kevin Green
W.O. / S.O. #:

PROJECT NUMBER: 01217339 T3
PROJECT NAME: Prologis - North Posse Site
PROJECT LOCATION: North Posse Site
SAMPLER NAME AND SIGNATURE: Tri Nguyen

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TPH	VOCs	Title 22 Metals	SVOCs	OCPs	HOLD	LAB USE ONLY
	SB18-5	Soil	6/21/18 802	1" sleeve	None		X		X		X		
	SB18-10	↓	807	↓	↓							X	
	SB18-15		816	↓	↓		X						
	SB18-20		823	5035+sleeve	Vanes		X	X	X				
	SB19-5		829	1' sleeve	None		X		X	X			
	SB19-10		842									X	
	SB19-15		849				X						
	SB19-20		858									X	
	SB19-25		912				X						
	SB19-30		930	↓	↓							X	
	SB19-35		946	5035+sleeve	Vanes		X	X		X			
	SB17-5		1012	1' sleeve	None		X		X		X		
	SB17-10		1018									X	
	SB17-15		1030				X						
	SB17-20	↓	↓ 1039	↓	↓							X	

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
COMPANY: SCS Engineers	TIME: 108	COMPANY: Chemtech	TIME: 1:05	COMPANY:	TIME:	COMPANY:	TIME:

FORM NO. 107 REV. 3/07 TWIN CONCEPTS

CHAIN OF CUSTODY RECORD

806095

SCS ENGINEERS

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816
Phone 562 426-9544 Fax 562 427-0805

TOTAL NUMBER OF SAMPLES: 32
PAGE 2 OF 3
TURNAROUND TIME REQUIRED: ☐ Std. ☐ 3-Day ☐ 24-Hr. ☒ Other 48hr
PROJECT NUMBER: 01217339 T3
PROJECT MANAGER: Kevin Green
PROJECT NAME: Prologis - North Posse Site
W.O. / S.O. #:
PROJECT LOCATION: North Posse Site
SAMPLER NAME AND SIGNATURE: Tri Nguyen

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TPH	VOCs	TiHe 22 Metals	SVOCs	OCPs	HOLD	LAB USE ONLY
	SB17-25	Soil	6/21/18 1050	1' sleeve	None		X						
	SB17-30	↓	1103	5035 + sleeve	Varies		X	X					
	SB17-35		1118	1' sleeve	None		X						
	SB17-40		1136	5035 + sleeve	Varies		X	X	X	X			
	SB16-5		1307	1' sleeve	None							X	
	SB16-10		1312	↓	↓							X	
	SB16-15		1320				X						
	SB16-20		1330	↓	↓							X	
	SB16-25		1342	5035 + sleeve	Varies		X	X					
	SB16-30		1356	↓	↓		X	X		X			
	SB15-5		1410	1' sleeve	None				X		X		
	SB15-10		1414	↓	↓		X		X				
	SB15-15		1421									X	
	SB15-20		1430	↓	↓		X						
	SB15-25	↓	1442	5035 + sleeve	Vanes		X	X					

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
TRI NGUYEN	6/22/18		6/22/18				
COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:
SCS ENGINEERS	1088	Client	108				

FORM NO. 107 REV. 3/07 TWIN CONCEPTS

CHAIN OF CUSTODY RECORD

806095

SCS ENGINEERS

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806-6816
Phone 562 426-9544 Fax 562 427-0805

TOTAL NUMBER OF SAMPLES: 32
PAGE 3 OF 3
TURNAROUND TIME REQUIRED: ☐ Std. ☐ 3-Day ☐ 24-Hr. ☒ Other 48 hr
PROJECT NUMBER: 01217339 T3
PROJECT MANAGER: Kevin Green
PROJECT NAME: Prologis - North Posse Site
W.O. / S.O. #:
PROJECT LOCATION: North Posse Site
SAMPLER NAME AND SIGNATURE: Tri Nguyen

I.D. NUMBER	SAMPLE DESIGNATION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: TPH	VOCs	Title 22 Metals	SVOCs	OCPs	LAB USE ONLY
	SB15-30	soil	6/21/18 1454	5035 kit + straw	Varies		X	X				
	SB15-35	↓	↓	↓	↓		X	X	X	X		

NOTES:

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:	RELINQUISHED BY:	DATE:	ACCEPTED BY:	DATE:
	6/22/18		6/22/18				
COMPANY: SCS Engineers	TIME: 108	COMPANY: Chmlk	TIME: 1:08	COMPANY:	TIME:	COMPANY:	TIME:

FORM NO. 107 REV 3/07 TWIN CONCEPTS

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806100
Report Date: 07/07/18
Date Received: 06/26/18
Number of Samples: 31
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB4-5	06/25/18	806100-01A
SB4-10	06/25/18	806100-02A
SB4-15	06/25/18	806100-03A
SB4-20	06/25/18	806100-04A
SB5-5	06/25/18	806100-05A
SB5-10	06/25/18	806100-06A
SB5-15	06/25/18	806100-07A
SB5-20	06/25/18	806100-08A
SB5-25	06/25/18	806100-09A
SB6-5	06/25/18	806100-10A
SB6-10	06/25/18	806100-11A
SB6-15	06/25/18	806100-12A
SB6-20	06/25/18	806100-13A
SB6-25	06/25/18	806100-14A
SB8-5	06/25/18	806100-15A
SB8-10	06/25/18	806100-16A
SB8-15	06/25/18	806100-17A
SB8-20	06/25/18	806100-18A
SB8-25	06/25/18	806100-19A
SB8-30	06/25/18	806100-20A
SB8-35	06/25/18	806100-21A
SB8-40	06/25/18	806100-22A
SB8-45	06/25/18	806100-23A
SB9-5	06/25/18	806100-24A
SB9-10	06/25/18	806100-25A
SB9-15	06/25/18	806100-26A
SB9-20	06/25/18	806100-27A
SB9-25	06/25/18	806100-28A
SB9-30	06/25/18	806100-29A
SB9-35	06/25/18	806100-30A
SB9-40	06/25/18	806100-31A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100
Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date		Sample ID	Sample Date
Project No.	SB4-20	6/25/2018		SB5-15	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1.1	1.1	50.4	µg/kg	1.3	1.3
Bromobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromoform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Bromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
n-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
sec-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
tert-Butylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Carbon Tetrachloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloroform	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Chloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
4-Chlorotoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2-Chloroethyl vinyl ether	ND	µg/kg	1.1	2.2	ND	µg/kg	1.3	2.6
Dibromochloromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dibromoethane (EDB)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Dibromomethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,3-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,4-Dichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Dichlorodifluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
cis-1,2 Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trans-1,2-Dichloroethene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,3-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
2,2-Dichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Cis-1,3-Dichloropropene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
trans-1,3-Dichloroproene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Ethylbenzene	ND	µg/kg	1.1	1.1	6.74	µg/kg	1.3	1.3
Hexachlorobutadiene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Isopropylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
4-Isopropyltoluene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Methylene Chloride	ND	µg/kg	1.1	5.5	ND	µg/kg	1.3	6.5
Naphthalene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
n-propylbenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Styrene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Tetrachloroethene(PCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Toluene	ND	µg/kg	1.1	1.1	48.1	µg/kg	1.3	1.3
1,2,3-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,4-Trichlorobenzene	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,1-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,1,2-Trichloroethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trichloroethene(TCE)	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Trichlorofluoromethane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,3-Trichloropropane	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
1,2,4-Trimethylbenzene	ND	µg/kg	1.1	1.1	4.01	µg/kg	1.3	1.3
1,3,5-Trimethylbenzene	ND	µg/kg	1.1	1.1	2.86	µg/kg	1.3	1.3
Vinyl Chloride	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
Total Xylenes	ND	µg/kg	1.1	2.2	8.36	µg/kg	1.3	2.6
Ethanol	ND	µg/kg	1.1	275	ND	µg/kg	1.3	325
MTBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
ETBE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
DIPE	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
TAME	ND	µg/kg	1.1	1.1	ND	µg/kg	1.3	1.3
TBA	ND	µg/kg	1.1	55	ND	µg/kg	1.3	65
MEK	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
MIBK	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
2-Hexanone	ND	µg/kg	1.1	11	ND	µg/kg	1.3	13
Analysis Date:	06/29/18				06/29/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB5-25	6/25/2018	SB6-5	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	232	232
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	232	232
Bromoform	ND	µg/kg	1	1	ND	µg/kg	232	232
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	232	232
n-Butylbenzene	ND	µg/kg	1	1	1,610	µg/kg	232	232
sec-Butylbenzene	ND	µg/kg	1	1	1,020	µg/kg	232	232
tert-Butylbenzene	ND	µg/kg	1	1	365	µg/kg	232	232
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	232	232
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
Chloroform	ND	µg/kg	1	1	ND	µg/kg	232	232
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	232	232
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	232	232
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	232	232
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	232	464
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	232	232
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	232	232
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	232	232
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	232	232
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	232	232
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	232	232
trans-1,3-Dichloroproene	ND	µg/kg	1	1	ND	µg/kg	232	232
Ethylbenzene	ND	µg/kg	1	1	720	µg/kg	232	232
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	232	232
Isopropylbenzene	ND	µg/kg	1	1	418	µg/kg	232	232
4-Isopropyltoluene	ND	µg/kg	1	1	1,800	µg/kg	232	232
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	232	1160
Naphthalene	ND	µg/kg	1	1	14,500	µg/kg	232	232
n-propylbenzene	ND	µg/kg	1	1	1,010	µg/kg	232	232
Styrene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	232	232
Toluene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	232	232
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	232	232
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	232	232
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	3,350	µg/kg	232	232
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	527	µg/kg	232	232
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	232	232
Total Xylenes	ND	µg/kg	1	2	820	µg/kg	232	464
Ethanol	ND	µg/kg	1	250	ND	µg/kg	232	58000
MTBE	ND	µg/kg	1	1	ND	µg/kg	232	232
ETBE	ND	µg/kg	1	1	ND	µg/kg	232	232
DIPE	ND	µg/kg	1	1	ND	µg/kg	232	232
TAME	ND	µg/kg	1	1	ND	µg/kg	232	232
TBA	ND	µg/kg	1	50	ND	µg/kg	232	11600
MEK	ND	µg/kg	1	10	ND	µg/kg	232	2320
MIBK	ND	µg/kg	1	10	ND	µg/kg	232	2320
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	232	2320
Analysis Date:	06/29/18				07/03/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB6-15	6/25/2018	SB6-25	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromoform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Bromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
n-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
sec-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
tert-Butylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Carbon Tetrachloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloroform	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Chloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
4-Chlorotoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2-Chloroethyl vinyl ether	ND	µg/kg	0.9	1.8	ND	µg/kg	1.2	2.4
Dibromochloromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dibromo-3-chloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dibromoethane (EDB)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Dibromomethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,4-Dichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Dichlorodifluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
cis-1,2 Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trans-1,2-Dichloroethene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
2,2-Dichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Cis-1,3-Dichloropropene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
trans-1,3-Dichloroproene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Ethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Hexachlorobutadiene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Isopropylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
4-Isopropyltoluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Methylene Chloride	ND	µg/kg	0.9	4.5	ND	µg/kg	1.2	6
Naphthalene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
n-propylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Styrene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,1,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,2,2-Tetrachloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Tetrachloroethene(PCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Toluene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,3-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,4-Trichlorobenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,1-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,1,2-Trichloroethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trichloroethene(TCE)	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Trichlorofluoromethane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,3-Trichloropropane	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,2,4-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
1,3,5-Trimethylbenzene	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Vinyl Chloride	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
Total Xylenes	ND	µg/kg	0.9	1.8	ND	µg/kg	1.2	2.4
Ethanol	ND	µg/kg	0.9	225	ND	µg/kg	1.2	300
MTBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
ETBE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
DIPE	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
TAME	ND	µg/kg	0.9	0.9	ND	µg/kg	1.2	1.2
TBA	1,090	µg/kg	0.9	45	166	µg/kg	1.2	60
MEK	46.2	µg/kg	0.9	9	ND	µg/kg	1.2	12
MIBK	ND	µg/kg	0.9	9	ND	µg/kg	1.2	12
2-Hexanone	ND	µg/kg	0.9	9	ND	µg/kg	1.2	12
Analysis Date:	06/29/18				06/29/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB8-15	6/25/2018	SB8-30	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	1.48	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1.2	2.4	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
trans-1,3-Dichloroproene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1.2	6	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Styrene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Toluene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	2.05	µg/kg	1.2	1.2	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
Total Xylenes	3.31	µg/kg	1.2	2.4	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1.2	300	ND	µg/kg	1	250
MTBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
ETBE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
DIPE	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
TAME	ND	µg/kg	1.2	1.2	ND	µg/kg	1	1
TBA	174	µg/kg	1.2	60	ND	µg/kg	1	50
MEK	ND	µg/kg	1.2	12	ND	µg/kg	1	10
MIBK	ND	µg/kg	1.2	12	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1.2	12	ND	µg/kg	1	10
Analysis Date:	06/29/18				06/29/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB8-45	6/25/2018	SB9-10	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	2,130	µg/kg	607	607
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	607	607
Bromoform	ND	µg/kg	1	1	ND	µg/kg	607	607
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	607	607
n-Butylbenzene	ND	µg/kg	1	1	3,360	µg/kg	607	607
sec-Butylbenzene	ND	µg/kg	1	1	1,960	µg/kg	607	607
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	607	607
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
Chloroform	ND	µg/kg	1	1	ND	µg/kg	607	607
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	607	607
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	607	607
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	607	607
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	607	1214
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	607	607
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	607	607
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	607	607
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	607	607
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	607	607
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	607	607
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	607	607
Ethylbenzene	ND	µg/kg	1	1	4,030	µg/kg	607	607
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	607	607
Isopropylbenzene	ND	µg/kg	1	1	1,410	µg/kg	607	607
4-Isopropyltoluene	ND	µg/kg	1	1	3,500	µg/kg	607	607
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	607	3035
Naphthalene	ND	µg/kg	1	1	180,000	µg/kg	607	607
n-propylbenzene	ND	µg/kg	1	1	3,350	µg/kg	607	607
Styrene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	607	607
Toluene	ND	µg/kg	1	1	4,520	µg/kg	607	607
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	607	607
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	607	607
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	607	607
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	28,000	µg/kg	607	607
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	8,440	µg/kg	607	607
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	607	607
Total Xylenes	ND	µg/kg	1	2	19,500	µg/kg	607	1214
Ethanol	ND	µg/kg	1	250	ND	µg/kg	607	151750
MTBE	ND	µg/kg	1	1	ND	µg/kg	607	607
ETBE	ND	µg/kg	1	1	ND	µg/kg	607	607
DIPE	ND	µg/kg	1	1	ND	µg/kg	607	607
TAME	ND	µg/kg	1	1	ND	µg/kg	607	607
TBA	ND	µg/kg	1	50	ND	µg/kg	607	30350
MEK	ND	µg/kg	1	10	ND	µg/kg	607	6070
MIBK	ND	µg/kg	1	10	ND	µg/kg	607	6070
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	607	6070
Analysis Date:	06/29/18				07/02/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB9-15	6/25/2018	SB9-30	6/25/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	6,060	µg/kg	740	740	330	µg/kg	50	50
Bromobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
Bromochloromethane	ND	µg/kg	740	740	ND	µg/kg	50	50
Bromoform	ND	µg/kg	740	740	ND	µg/kg	50	50
Bromomethane	ND	µg/kg	740	740	ND	µg/kg	50	50
n-Butylbenzene	8,200	µg/kg	740	740	1,620	µg/kg	50	50
sec-Butylbenzene	4,940	µg/kg	740	740	990	µg/kg	50	50
tert-Butylbenzene	ND	µg/kg	740	740	174	µg/kg	50	50
Carbon Tetrachloride	ND	µg/kg	740	740	ND	µg/kg	50	50
Chlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
Chloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
Chloroform	ND	µg/kg	740	740	ND	µg/kg	50	50
Chloromethane	ND	µg/kg	740	740	ND	µg/kg	50	50
2-Chlorotoluene	ND	µg/kg	740	740	ND	µg/kg	50	50
4-Chlorotoluene	ND	µg/kg	740	740	ND	µg/kg	50	50
2-Chloroethyl vinyl ether	ND	µg/kg	740	1480	ND	µg/kg	50	100
Dibromochloromethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2-Dibromo-3-chloropropane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2-Dibromoethane (EDB)	ND	µg/kg	740	740	ND	µg/kg	50	50
Dibromomethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2-Dichlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,3-Dichlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,4-Dichlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
Dichlorodifluoromethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1-Dichloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2-Dichloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1-Dichloroethene	ND	µg/kg	740	740	ND	µg/kg	50	50
cis-1,2 Dichloroethene	ND	µg/kg	740	740	ND	µg/kg	50	50
Trans-1,2-Dichloroethene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2-Dichloropropane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,3-Dichloropropane	ND	µg/kg	740	740	ND	µg/kg	50	50
2,2-Dichloropropane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1-Dichloropropene	ND	µg/kg	740	740	ND	µg/kg	50	50
Cis-1,3-Dichloropropene	ND	µg/kg	740	740	ND	µg/kg	50	50
trans-1,3-Dichloproene	ND	µg/kg	740	740	ND	µg/kg	50	50
Ethylbenzene	24,200	µg/kg	740	740	2,260	µg/kg	50	50
Hexachlorobutadiene	ND	µg/kg	740	740	ND	µg/kg	50	50
Isopropylbenzene	5,760	µg/kg	740	740	830	µg/kg	50	50
4-Isopropyltoluene	6,700	µg/kg	740	740	1,410	µg/kg	50	50
Methylene Chloride	ND	µg/kg	740	3700	ND	µg/kg	50	250
Naphthalene	209,000	µg/kg	740	740	29,700	µg/kg	50	50
n-propylbenzene	12,100	µg/kg	740	740	1,740	µg/kg	50	50
Styrene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1,1,2-Tetrachloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1,2,2-Tetrachloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
Tetrachloroethene(PCE)	ND	µg/kg	740	740	ND	µg/kg	50	50
Toluene	36,400	µg/kg	740	740	81.5	µg/kg	50	50
1,2,3-Trichlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2,4-Trichlorobenzene	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1,1-Trichloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,1,2-Trichloroethane	ND	µg/kg	740	740	ND	µg/kg	50	50
Trichloroethene(TCE)	ND	µg/kg	740	740	ND	µg/kg	50	50
Trichlorofluoromethane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2,3-Trichloropropane	ND	µg/kg	740	740	ND	µg/kg	50	50
1,2,4-Trimethylbenzene	82,800	µg/kg	740	740	10,100	µg/kg	50	50
1,3,5-Trimethylbenzene	33,700	µg/kg	740	740	1,600	µg/kg	50	50
Vinyl Chloride	ND	µg/kg	740	740	ND	µg/kg	50	50
Total Xylenes	176,000	µg/kg	740	1480	3,210	µg/kg	50	100
Ethanol	ND	µg/kg	740	185000	ND	µg/kg	50	12500
MTBE	ND	µg/kg	740	740	ND	µg/kg	50	50
ETBE	ND	µg/kg	740	740	ND	µg/kg	50	50
DIPE	ND	µg/kg	740	740	ND	µg/kg	50	50
TAME	ND	µg/kg	740	740	ND	µg/kg	50	50
TBA	ND	µg/kg	740	37000	4,900	µg/kg	50	2500
MEK	ND	µg/kg	740	7400	ND	µg/kg	50	500
MIBK	ND	µg/kg	740	7400	ND	µg/kg	50	500
2-Hexanone	ND	µg/kg	740	7400	ND	µg/kg	50	500
Analysis Date:	07/02/18				07/02/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806100

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date
Project No.	SB9-40	6/25/2018

Analyte	Results	Units	DF	DLR
Benzene	160	µg/kg	112	112
Bromobenzene	ND	µg/kg	112	112
Bromochloromethane	ND	µg/kg	112	112
Bromoform	ND	µg/kg	112	112
Bromomethane	ND	µg/kg	112	112
n-Butylbenzene	1,110	µg/kg	112	112
sec-Butylbenzene	622	µg/kg	112	112
tert-Butylbenzene	174	µg/kg	112	112
Carbon Tetrachloride	ND	µg/kg	112	112
Chlorobenzene	ND	µg/kg	112	112
Chloroethane	ND	µg/kg	112	112
Chloroform	ND	µg/kg	112	112
Chloromethane	ND	µg/kg	112	112
2-Chlorotoluene	ND	µg/kg	112	112
4-Chlorotoluene	ND	µg/kg	112	112
2-Chloroethyl vinyl ether	ND	µg/kg	112	224
Dibromochloromethane	ND	µg/kg	112	112
1,2-Dibromo-3-chloropropane	ND	µg/kg	112	112
1,2-Dibromoethane (EDB)	ND	µg/kg	112	112
Dibromomethane	ND	µg/kg	112	112
1,2-Dichlorobenzene	ND	µg/kg	112	112
1,3-Dichlorobenzene	ND	µg/kg	112	112
1,4-Dichlorobenzene	ND	µg/kg	112	112
Dichlorodifluoromethane	ND	µg/kg	112	112
1,1-Dichloroethane	ND	µg/kg	112	112
1,2-Dichloroethane	ND	µg/kg	112	112
1,1-Dichloroethene	ND	µg/kg	112	112
cis-1,2 Dichloroethene	ND	µg/kg	112	112
Trans-1,2-Dichloroethene	ND	µg/kg	112	112
1,2-Dichloropropane	ND	µg/kg	112	112
1,3-Dichloropropane	ND	µg/kg	112	112
2,2-Dichloropropane	ND	µg/kg	112	112
1,1-Dichloropropene	ND	µg/kg	112	112
Cis-1,3-Dichloropropene	ND	µg/kg	112	112
trans-1,3-Dichloroproene	ND	µg/kg	112	112
Ethylbenzene	1,290	µg/kg	112	112
Hexachlorobutadiene	ND	µg/kg	112	112
Isopropylbenzene	450	µg/kg	112	112
4-Isopropyltoluene	1,060	µg/kg	112	112
Methylene Chloride	ND	µg/kg	112	560
Naphthalene	46,700	µg/kg	112	112
n-propylbenzene	1,200	µg/kg	112	112
Styrene	ND	µg/kg	112	112
1,1,1,2-Tetrachloroethane	ND	µg/kg	112	112
1,1,2,2-Tetrachloroethane	ND	µg/kg	112	112
Tetrachloroethene(PCE)	ND	µg/kg	112	112
Toluene	ND	µg/kg	112	112
1,2,3-Trichlorobenzene	ND	µg/kg	112	112
1,2,4-Trichlorobenzene	ND	µg/kg	112	112
1,1,1-Trichloroethane	ND	µg/kg	112	112
1,1,2-Trichloroethane	ND	µg/kg	112	112
Trichloroethene(TCE)	ND	µg/kg	112	112
Trichlorofluoromethane	ND	µg/kg	112	112
1,2,3-Trichloropropane	ND	µg/kg	112	112
1,2,4-Trimethylbenzene	5,990	µg/kg	112	112
1,3,5-Trimethylbenzene	2,100	µg/kg	112	112
Vinyl Chloride	ND	µg/kg	112	112
Total Xylenes	1,750	µg/kg	112	224
Ethanol	ND	µg/kg	112	28000
MTBE	ND	µg/kg	112	112
ETBE	ND	µg/kg	112	112
DIPE	ND	µg/kg	112	112
TAME	ND	µg/kg	112	112
TBA	ND	µg/kg	112	5600
MEK	ND	µg/kg	112	1120
MIBK	ND	µg/kg	112	1120
2-Hexanone	ND	µg/kg	112	1120

Analysis Date: 07/02/18

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB4-10	mg/kg	0.49	1	0.20	ND	1	5.0	ND	1	10
SB4-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB5-15	mg/kg	0.67	1	0.20	ND	1	5.0	ND	1	10
SB5-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB6-5	mg/kg	1,490	232	46.4	22,900	20	100	3,000	1	10
SB6-15	mg/kg	0.77	1	0.20	1,080	1	5.0	ND	1	10
SB6-25	mg/kg	1.37	1	0.20	ND	1	5.0	ND	1	10
SB8-15	mg/kg	2.70	1	0.20	4,860	20	100	3,240	20	200
SB8-30	mg/kg	0.25	1	0.20	ND	1	5.0	ND	1	10
SB8-45	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB9-10	mg/kg	2,090	607	121	24,900	20	100	6,600	20	200
SB9-15	mg/kg	4,620	740	148	27,400	20	100	2,200	20	200
SB9-30	mg/kg	1,270	50	10.0	8,300	10	50.0	718	10	100
SB9-40	mg/kg	1,890	112	22.4	2,850	1	5.0	240	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		06/25/18			06/25/18			06/25/18		
Analysis Date:		06/29-07/03/18			06/27-28/18			06/27-28/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB4-5	SB5-10	SB6-5	SB6-10	SB8-5	SB8-20	SB8-35	SB9-15	SB9-20	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	6.85	15.7	ND	ND	ND	4.02	23.9	ND	2.00
Barium	156	ND	134	72.6	77.3	47.6	25.7	184	21.5	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	9.46	ND	37.2	11.0	21.5	7.09	11.7	28.5	7.49	1.00
Cobalt	ND	4.75	ND	2.06	3.69	3.40	3.72	ND	ND	2.00
Copper	14.4	ND	59.6	19.1	46.3	8.79	4.40	129	2.90	2.00
Lead	84.1	195	158	135	418	2.89	ND	840	ND	2.00
Molybdenum	ND	26.3	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	4.45	21.6	10.3	4.70	14.3	6.89	10.1	27.2	4.48	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	ND	ND	23.6	18.5	26.4	12.4	18.8	19.9	8.66	2.00
Zinc	32.9	154	27.8	22.8	95.8	16.3	20.1	68.9	6.63	5.00
Analysis Date:	7/7/18	6/30/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB4-5	SB5-10	SB6-5	SB6-10	SB8-5	SB8-20	SB8-35	SB9-15	SB9-20	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	7/7/18	6/30/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	7/7/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Extraction Method STLC (W.E.T Method)
Date Received: 06/26/18
Extraction Date 6/27/2018
Sample Matrix: Aqueous(STLC Extract)
EPA Method: 6010B Metals **Units:** ppm or mg/l

Client Sample ID:	SB5-10	SB6-10	SB8-20	SB8-35	SB9-15	SB9-20	Detection
Dilution Factor:	2	2	2	2	2	2	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Lead	7.24	2.14	ND	ND	3.23	ND	0.01
Analysis Date:	6/30/18	6/30/18	6/30/18	6/30/18	6/30/18	6/30/18	

Extraction Method TCLP (EPA 1311)
Date Received: 06/26/18
Extraction Date 6/27/2018
Sample Matrix: Aqueous(TCLP Extract)
EPA Method: 6010B Metals **Units:** ppm or mg/l

Client Sample ID:	SB5-10	SB6-10	SB8-20	SB8-35	SB9-15	SB9-20	Detection
Dilution Factor:	2	2	2	2	2	2	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Lead	0.11	0.04	ND	ND	ND	ND	0.01
Analysis Date:	6/30/18	6/30/18	6/30/18	6/30/18	6/30/18	6/30/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse

Units: ppb or µg/kg

Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Soil

Client Sample ID:	SB8-10	Detection
Dilution Factor:	1	Limit
	(ug/kg)	(ug/kg)
Aldrin	ND	2.0
Chlordane (total)	ND	2.0
Chlordane (alpha)	ND	2.0
4,4'-DDD	ND	2.0
4,4'-DDE	ND	2.0
4,4'-DDT	ND	2.0
Dieldrin	ND	2.0
Endosulfan I	ND	2.0
Endosulfan II	ND	2.0
Endosulfan Sulfate	ND	2.0
Endrin	ND	2.0
Endrin aldehyde	ND	2.0
Endrin ketone	ND	2.0
Chlordane (gamma)	ND	2.0
Heptachlor	ND	2.0
Heptachlor epoxide	ND	2.0
Alpha-BHC	ND	2.0
Betta-BHC	ND	2.0
Delta-BHC	ND	2.0
Gamma-BHC, Lindane	ND	2.0
Methoxychlor	ND	10.0
Toxaphene	ND	170.0

Analysis Date: 6/29/18

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8082 PCBs
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or ug/Kg

Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Soil

	Client Sample ID:	S5-15	SB8-15	SB8-45	SB9-10	SB9-15	SB9-30	Detection
	Dilution Factor:	1	1	1	4	10	1	Limit
		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
PCB 1016		ND	ND	ND	ND	ND	ND	50.0
PCB 1221		ND	ND	ND	ND	ND	ND	50.0
PCB 1232		ND	ND	ND	ND	ND	ND	50.0
PCB 1242		ND	ND	ND	ND	ND	ND	50.0
PCB 1248		ND	ND	ND	ND	ND	ND	50.0
PCB 1254		ND	ND	ND	ND	ND	ND	50.0
PCB 1260		ND	ND	ND	ND	ND	ND	50.0
PCB 1262		ND	ND	ND	ND	ND	ND	50.0
PCB 1268		ND	ND	ND	ND	ND	ND	50.0
	Analysis Date:	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 7199 Hexavalent Chromium
Attention:

Project No. 01217339.00 T3
Project Site: North Posse
Units: ppb or mg/Kg

Job No: 806100
Report Date: 07/07/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Soil

Client Sample ID:	SB5-10	SB6-10	SB8-20	SB8-35	SB9-15	SB9-20	Detection
Dilution Factor:	1	1	1	4	5	5	Limit
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Hexavlent Chromium	0.185J	ND	ND	0.271	1.12	ND	0.20
Analysis Date:	6/28/18	6/28/18	6/28/18	6/28/18	6/28/18	6/28/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers | **Project No.** | **Job No:** 806100
Sample Matrix: Soil | **Project Site:** North Posse | **Report Date:** 07/07/18
Date of Sample: 06/25/18
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 06/26/18

Client Sample ID:	SB5-15	SB6-10	SB8-15	SB8-30	SB8-45	SB9-10	SB9-15	SB9-30	SB9-40	Detection
Dilution Factor:	1	1	1	1	1	4	1	1	1	Limit
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	(ppb)
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
bis(2-Chloroethyl)Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Methylphenol(O-cresol)	ND	ND	ND	ND	ND	3,620	ND	ND	ND	200
bis(2-Chloroisopropyl)Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
n-Nitroso-di-n-Propylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Methylphenol(P-cresol)	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4-Dimethylphenol	ND	ND	ND	ND	ND	29,000	ND	ND	ND	200
bis(2-Chloroethoxy) Methane	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	400
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Naphthalene	ND	ND	252	ND	ND	33,100	6,450	5,140	3,300	200
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Chloro-3-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Methlynaphthalene	ND	ND	297	ND	ND	85,600	15,200	20,500	7,040	200
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Dimethyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Carbazole	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzoic Acid	ND	975	ND	ND	ND	ND	ND	ND	ND	800
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Dibenzofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Fluorene	ND	234	ND	ND	ND	4,790	730	1,380	ND	200
Diethyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Chlorophenyl Phenyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	400
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
4-Bromophenyl Phenyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Hexachlorobenzene(total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	400
Phenanthrene	ND	951	ND	ND	ND	23,800	1,970	2,390	612	200
Anthracene	ND	251	ND	ND	ND	1,450	202	ND	ND	200
Di-n-Butyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Fluoranthene	ND	512	ND	ND	ND	1,060	ND	ND	ND	200
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Butyl Benzyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzo(a)anthracene	ND	ND	ND	ND	ND	7,620	260	262	ND	200
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Chrysene	ND	307	294	ND	ND	28,800	512	416	ND	200
bis(2-Ethylhexyl) Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Di-N-Octyl Phthalate	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	4,540	ND	ND	ND	200
Benzo(a)pyrene	ND	ND	ND	ND	ND	5,700	ND	ND	ND	200
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	12,100	ND	ND	ND	200
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	3,340	ND	ND	ND	200
N-Nitrosodiemethylamine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Pyridine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Aniline	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Benzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
Analysis Date:	7/2/18	7/2/18	7/2/18	7/2/18	7/2/18	7/2/18	7/2/18	7/2/18	7/2/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/29/18 **Job No:** 806100
QC Lab ID: 806100-9A
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	108.5	110.4	1.7%	30	70-130
Benzene	ND	25	129.5	129.9	0.3%	30	70-130
Trichloroethylene	ND	25	129.8	129.8	0.0%	30	70-130
Toluene	ND	25	129.6	125.1	3.5%	30	70-130
Chlorobenzene	ND	25	129.6	128.2	1.1%	30	70-130

QC Analysis Date: 06/29/18
QC Lab ID: 806100-9A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	118.2	118.3	0.1%	30	70-130

QC Analysis Date: 06/27/18
QC Lab ID: 806100-4A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	111.0	112.9	1.7%	30	70-130

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QC Analysis Date: 06/30/18
QC Lab ID: 806100-1A
Units: ppm
Job No: 806100

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	105.0	104.0	1.0%	30	70-130
Arsenic	ND	1.00	115.0	111.0	3.5%	30	70-130
Barium	ND	1.00	107.0	98.0	8.8%	30	70-130
Beryllium	ND	1.00	101.0	99.0	2.0%	30	70-130
Cadmium	ND	1.00	108.0	105.0	2.8%	30	70-130
Chromium	ND	1.00	107.0	102.0	4.8%	30	70-130
Cobalt	ND	1.00	109.0	103.0	5.7%	30	70-130
Copper	ND	1.00	104.0	101.0	2.9%	30	70-130
Lead	ND	1.00	107.0	99.0	7.8%	30	70-130
Molybdenum	ND	1.00	106.0	97.0	8.9%	30	70-130
Nickel	ND	1.00	109.0	98.0	10.6%	30	70-130
Selenium	ND	1.00	105.0	96.0	9.0%	30	70-130
Silver	ND	1.00	93.0	99.0	6.3%	30	70-130
Thallium	ND	1.00	108.0	101.0	6.7%	30	70-130
Vanadium	ND	1.00	105.0	102.0	2.9%	30	70-130
Zinc	ND	1.00	107.0	101.0	5.8%	30	70-130

QC Analysis Date: 06/28/18
QC Lab ID: HC062818-1
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

METHOD: 7199

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Chromium(VI)	ND	1.00	87.7	93.4	87.7%	20	75-125

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CHAIN OF CUSTODY RECORD

Job No.: 806100 / 0121733900 T3

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Norm Poser P.O No.

SITE ADDRESS: 3641 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time: NORM 24 hr 48 hr (X) Other

#	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB4-5	6/23/11	735	So				1
2	SB4-10		742					1
3	SB4-15		751					1
4	SB4-20		804				5035	4
5	SB5-5		850					1
6	SB5-10		857					1
7	SB5-15		904				5035	4
8	SB5-20		919					1
9	SB5-25		946				5035	4
10	SB6-5		1026					
11	SB6-10		1028					
12	SB6-15		1037					
13	SB6-20		1050					
14	SB6-25		1104					4
15	SB8-5		1223					1
16	SB8-10		1230					1

ANALYSIS REQUIRED

#	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hex. Chromium	STLC Lead	TCLP Lead	SVOCs (8270C)	PCB (8082) OCPs (8081A)
1									X					
2			X											
3														
4			X	X										
5														
6									X	X	X	X		
7			X	X									X	X
8														
9			X	X										
10			X	X					X					
11									X	X	X	X	X	
12			X	X										
13														
14			X	X										
15									X					
16														X

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/23/11	1900
RECEIVED BY:		[illegible]	[illegible]	6/24/11	1pm
RELINQUISHED BY:		Martin Lu	Chemtek	6/24/11	2pm
RECEIVED FOR LABORATORY BY:		Mart. Lu	Chemtek	6/24/11	2p

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made

Distribution : WHITE [illegible] / YELLOW [illegible] CHEMTEK / PINK [illegible]

*Type: SO [illegible] GW [illegible] WW [illegible] AQ [illegible] A [illegible] OT [illegible]

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CHAIN OF CUSTODY RECORD

806100

Job No.: 012173900 T3

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K. Green Email: kgreen@scsengineers.com

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Del Paso SL4 P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time: NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hex. Chromium	STLC Lead	TCLP Lead	SVOCs (8270C)	PCBs (8082)
1	SB6-15	6/25/18	1237	SO			5035	4	X	X	X	X									X	X
2	SB6-20		1246				↓	↓									X	X	X	X		
3	SB6-25		1305					1														
4	SB6-30		1319						X	X											X	
5	SB6-35		1334														X	X	X	X		
6	SB6-40		1356					↓														
7	SB8-45		1422				5035	4	X	X	X	X									X	X
8	SB9-5		1437				5035	4														
9	SB9-10		1442						X	X	X	X									X	X
10	SB9-15		1451						X	X	X	X					X	X	X	X	X	X
11	SB9-20		1458				↓	↓									X	X	X	X		
12	SB9-25		1512					1	X	X												
13	SB9-30		1530					1			X	X									X	X
14	SB9-35		1544				5035	4														
15	SB9-40		1609				↓	↓	X	X	X	X									X	
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/25/18	1700
RECEIVED BY:		Martin Li	CM	6/26/18	1pm
RELINQUISHED BY:		Martin Li	Chemtek	6/26/18	2pm
RECEIVED FOR LABORATORY BY		Martin Li	Chemtek	6/26/18	2p

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made

Distribution: WHITE with report / YELLOW to CHEMTEK / PINK to originator

*Type: SO - Soil, GW - Groundwater, WW - Wastewater, AQ - Aqueous, A - Air, OI - Oil

CHEMTEK
environmental laboratories

ELAP: 1435
LACSD: 10167

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806100A
Report Date: 07/11/18
Date Received: 06/26/18
Number of Samples: 31
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB4-5	06/25/18	806100-01A
SB4-10	06/25/18	806100-02A
SB4-15	06/25/18	806100-03A
SB4-20	06/25/18	806100-04A
SB5-5	06/25/18	806100-05A
SB5-10	06/25/18	806100-06A
SB5-15	06/25/18	806100-07A
SB5-20	06/25/18	806100-08A
SB5-25	06/25/18	806100-09A
SB6-5	06/25/18	806100-10A
SB6-10	06/25/18	806100-11A
SB6-15	06/25/18	806100-12A
SB6-20	06/25/18	806100-13A
SB6-25	06/25/18	806100-14A
SB8-5	06/25/18	806100-15A
SB8-10	06/25/18	806100-16A
SB8-15	06/25/18	806100-17A
SB8-20	06/25/18	806100-18A
SB8-25	06/25/18	806100-19A
SB8-30	06/25/18	806100-20A
SB8-35	06/25/18	806100-21A
SB8-40	06/25/18	806100-22A
SB8-45	06/25/18	806100-23A
SB9-5	06/25/18	806100-24A
SB9-10	06/25/18	806100-25A
SB9-15	06/25/18	806100-26A
SB9-20	06/25/18	806100-27A
SB9-25	06/25/18	806100-28A
SB9-30	06/25/18	806100-29A
SB9-35	06/25/18	806100-30A
SB9-40	06/25/18	806100-31A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Extraction Method STLC (W.E.T Method)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Job No: 806100A
Report Date: 07/11/18
Date of Sample: 06/25/18
Date Received: 06/26/18
Sample Matrix: Aqueous(STLC Extract)

Client Sample ID:	SB6-5	SB8-5	Detection
Dilution Factor:	4	4	Limit
Analyte	(ppm)	(ppm)	(ppm)
Lead	5.87	16.5	0.02
Analysis Date:	7/11/18	7/11/18	

Extraction Method TCLP (EPA 1311)
Extraction Date 7/9/2018
EPA Method: 6010B Metals **Units:** ppm or mg/l

Date Received: 06/26/18
Sample Matrix: Aqueous(TCLP Extract)

Client Sample ID:	SB6-5	SB8-5	Detection
Dilution Factor:	2	2	Limit
Analyte	(ppm)	(ppm)	(ppm)
Lead	0.47	0.49	0.02
Analysis Date:	7/11/18	7/11/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 07/11/18
QC Lab ID: 807019-1A
Units: ppm
Job No: 806100A

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Lead	ND	1.00	102.0	100.0	2.0%	30	70-130

Favorites
Archive
OUTSTA...
Sent Ite... 2
Aron Gust...
Inbox 3329
Add favorite
Folders
Inbox 3329
Junk ... 139
Drafts 1176
Sent Ite... 2
Deleted ... 1
Archive
Conversa...
lusc8202...
OUTSTA...
Notes...
royal air... 1
New folder

additional Hex Chrom analysis

HA

Hutchens, Ashley <AHutchens@SCSEngineers.com>
Thu 7/5/2018, 4:52 PM
Martin Lu (chemteklabs@hotmail.com); Romanowski, Christopher; Green, Kevin

Martin,

On a rush basis, can you please prep/analyze the following:

Please analyze the following samples for hexavalent chromium:
5/29/18 sample T6-0.5
6/20/18 sample SB2-10
6/19/18 samples SB3-5 and SB11-5
6/18/18 samples Surface 5, Surface 8, and Surface 12.

Please prep and analyze STLC/TCLP for lead for the following samples:
5/29/18 sample T1-9 and T6-0.5
5/30/18 sample B8 1-2
6/18/18 samples Surface 5, Surface 8, Surface 10, Surface 11, Surface 12, Surface 13, Surface 15, and Surface 16
6/19/18 sample SB3-5
6/20/18 sample SB7-5 and SB2-10
6/25/18 sample SB6-5 and SB8-5

Ashley P. Hutchens
Senior Project Manager
SCS Engineers
Direct: 562.637.4502
Cell: 562.572.4097
ahutchens@scsengineers.com | www.scsengineers.com

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 806100 / 0121733900 T3

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Norm Poser P.O No.

SITE ADDRESS: 3641 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time: NORM 24 hr 48 hr (X) Other

#	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB4-5	6/23/11	735	So				1
2	SB4-10		742					1
3	SB4-15		751					1
4	SB4-20		804				5035	4
5	SB5-5		850					1
6	SB5-10		857					1
7	SB5-15		904				5035	4
8	SB5-20		919					1
9	SB5-25		946				5035	4
10	SB6-5		1026					
11	SB6-10		1028					
12	SB6-15		1037					
13	SB6-20		1050					
14	SB6-25		1104					4
15	SB8-5		1223					1
16	SB8-10		1230					1

ANALYSIS REQUIRED

#	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hex. Chromium	STLC Lead	TCLP Lead	SVOCs (8270C)	PCB (8082) OCPs (8081A)
1									X					
2			X											
3														
4			X	X										
5														
6									X	X	X	X		
7			X	X									X	X
8														
9			X	X										
10			X	X					X					
11									X	X	X	X	X	
12			X	X										
13														
14			X	X										
15									X					
16														X

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/23/11	1900
RECEIVED BY:		[illegible]	[illegible]	6/24/11	1pm
RELINQUISHED BY:		Martin Lu	Chemtek	6/24/11	2pm
RECEIVED FOR LABORATORY BY:		Mart. Lu	Chemtek	6/24/11	2p

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made

Distribution : WHITE [illegible] / YELLOW [illegible] CHEMTEK / PINK [illegible]

*Type: SO [illegible] GW [illegible] WW [illegible] AQ [illegible] A [illegible] OT [illegible]

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CHAIN OF CUSTODY RECORD

806100

Job No.: 012173900 T3

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K. Green Email: kgreen@scsengineers.com

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Del Paso SL4 P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time: NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hex. Chromium	STLC Lead	TCLP Lead	SVOCs (8270C)	PCBs (8082)
1	SB6-15	6/25/18	1237	SO			5035	4	X	X	X	X									X	X
2	SB6-20		1246				↓	↓									X	X	X	X		
3	SB6-25		1305					1														
4	SB6-30		1319						X	X											X	
5	SB6-35		1334														X	X	X	X		
6	SB6-40		1356					↓														
7	SB8-45		1422				5035	4	X	X	X	X									X	X
8	SB9-5		1437				5035	4														
9	SB9-10		1442						X	X	X	X									X	X
10	SB9-15		1451						X	X	X	X					X	X	X	X	X	X
11	SB9-20		1458				↓	↓									X	X	X	X		
12	SB9-25		1512					1	X	X												
13	SB9-30		1530					1			X	X									X	X
14	SB9-35		1544				5035	4														
15	SB9-40		1609				↓	↓	X	X	X	X									X	
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/25/18	1700
RECEIVED BY:		Martin Li	CM	6/26/18	1pm
RELINQUISHED BY:		Martin Li	Chemtek	6/26/18	2pm
RECEIVED FOR LABORATORY BY		Martin Li	Chemtek	6/26/18	2p

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made

Distribution: WHITE with report / YELLOW to CHEMTEK / PINK to originator

*Type: SO - Soil, GW - Groundwater, WW - Wastewater, AQ - Aqueous, A - Air, OI - Oil

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

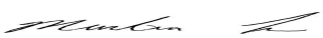
Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806067
Report Date: 06/21/18
Date Received: 06/18/18
Number of Samples: 16
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
Surface-1	06/18/18	806067-01A
Surface-3	06/18/18	806067-02A
Surface-2	06/18/18	806067-03A
Surface-4	06/18/18	806067-04A
Surface-5	06/18/18	806067-05A
Surface-8	06/18/18	806067-06A
Surface-7	06/18/18	806067-07A
Surface-9	06/18/18	806067-08A
Surface-10	06/18/18	806067-09A
Surface-11	06/18/18	806067-10A
Surface-14	06/18/18	806067-11A
Surface-13	06/18/18	806067-12A
Surface-15	06/18/18	806067-13A
Surface-16	06/18/18	806067-14A
Surface-6	06/18/18	806067-15A
Surface-12	06/18/18	806067-16A

Reviewed and Approved:



For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806067
Report Date: 06/21/18
Date of Sample: 06/18/18
Date Received: 06/18/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	Surface-3	Surface-2	Surface-4	Surface-5	Surface-8	Surface-7	Surface-9	Surface-10	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	23.4	47.5	10.5	ND	8.47	2.00
Barium	42.7	36.1	27.8	87.5	46.7	57.5	13.1	128	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	8.22	17.5	17.4	138	104	72.6	29.6	56.9	1.00
Cobalt	2.19	ND	2.51	10.8	19.1	6.94	2.56	5.19	2.00
Copper	27.0	10.4	8.80	177	109	35.5	22.8	52.2	2.00
Lead	20.8	19.9	38.2	289	620	83.1	56.4	293	2.00
Molybdenum	ND	ND	ND	36.8	12.8	ND	ND	9.95	2.00
Nickel	8.67	5.33	6.75	123	54.9	26.4	18.4	38.0	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	14.7	11.7	16.4	107	21.0	40.0	13.3	25.5	2.00
Zinc	51.6	64.3	24.1	211	195	101	67.6	43.6	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	Surface-3	Surface-2	Surface-4	Surface-5	Surface-8	Surface-7	Surface-9	Surface-10	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806067
Report Date: 06/21/18
Date of Sample: 06/18/18
Date Received: 06/18/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	Surface-11	Surface-14	Surface-13	Surface-15	Surface-16	Surface-6	Surface-12	Detection
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	92.9	104	102	129	41.2	52.7	89.5	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	24.3	27.5	71.6	75.1	19.5	93.5	118	1.00
Cobalt	2.42	7.30	4.99	3.93	2.37	3.92	10.4	2.00
Copper	38.4	25.8	71.9	45.4	24.9	941	102	2.00
Lead	263	43.8	272	900	225	115	1,115	2.00
Molybdenum	ND	ND	14.2	ND	ND	ND	ND	2.00
Nickel	15.3	26.5	23.6	24.2	9.56	20.2	68.8	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	23.9	39.2	41.8	45.8	20.3	42.3	99.8	2.00
Zinc	132	57.3	143	84.7	95.9	235	301	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	Surface-11	Surface-14	Surface-13	Surface-15	Surface-16	Surface-6	Surface-12	Detection
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse

Units: ppb or µg/kg

Job No: 806067
Report Date: 06/21/18
Date of Sample: 06/18/18
Date Received: 06/18/18
Sample Matrix: Soil

Client Sample ID:	Surface-1	Surface-3	Surface-8	Surface-10	Surface-13	Surface-15	Surface-6	Surface-12	Detection
Dilution Factor:	10	10	10	10	10	10	10	10	Limit
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Chlordane (total)	ND	ND	18.1J	ND	ND	ND	ND	ND	2.0
Chlordane (alpha)	ND	ND	ND	ND	ND	ND	ND	ND	2.0
4,4'-DDD	ND	ND	18.1J	ND	ND	ND	ND	ND	2.0
4,4'-DDE	10.5J	ND	141	17.8J	ND	ND	ND	40.7	2.0
4,4'-DDT	ND	ND	170	39.4	10.5J	ND	60.2	21.4	2.0
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endosulfan Sulfate	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Endrin ketone	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Chlordane (gamma)	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Betta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Delta-BHC	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	ND	ND	ND	ND	ND	ND	2.0
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	10.0
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	170.0
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/20/18 **Job No:** 806067
QC Lab ID: 806056-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	101.0	103.0	2.0%	30	70-130
Arsenic	ND	1.00	109.0	105.0	3.7%	30	70-130
Barium	ND	1.00	98.0	97.0	1.0%	30	70-130
Beryllium	ND	1.00	97.0	99.0	2.0%	30	70-130
Cadmium	ND	1.00	99.0	100.0	1.0%	30	70-130
Chromium	ND	1.00	98.0	101.0	3.0%	30	70-130
Cobalt	ND	1.00	98.0	101.0	3.0%	30	70-130
Copper	ND	1.00	98.0	97.0	1.0%	30	70-130
Lead	ND	1.00	100.0	102.0	2.0%	30	70-130
Molybdenum	ND	1.00	98.0	101.0	3.0%	30	70-130
Nickel	ND	1.00	100.0	100.0	0.0%	30	70-130
Selenium	ND	1.00	102.0	105.0	2.9%	30	70-130
Silver	ND	1.00	95.0	93.0	2.1%	30	70-130
Thallium	ND	1.00	105.0	106.0	0.9%	30	70-130
Vanadium	ND	1.00	103.0	104.0	1.0%	30	70-130
Zinc	ND	1.00	101.0	104.0	2.9%	30	70-130

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CHAIN OF CUSTODY RECORD

806067

Job No.: 01217339.00 T3

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K. Green Email: kgreen@scsengineers

ADDRESS: 3900 Kilroy Airport Wy

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: North Plaza P.O. No.:

SITE ADDRESS: 3041 Del Amo

SAMPLED BY: C. Nomenoski EDF

Turn Around Time: NORM 24 hr 48 hr X Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081A OCPs				
1	Surface - 1	6/18/18	1240	SO		1										X				
2	Surface - 3		1250			2									X	X				
3	Surface - 2		1300			1									X					
4	Surface - 4		1310			1									X					
5	Surface - 5		1320			1									X					
6	Surface - 8		1325			2									X	X				
7	Surface - 7		1330			1									X					
8	Surface - 9		1340			1									X					
9	Surface - 10		1400			2									X	X				
10	Surface - 11		1410			1									X					
11	Surface - 14 APH		1420			1									X					
12	Surface - 13		1430			2									X	X				
13	Surface - 15		1445			2									X	X				
14	Surface - 16		1500			1									X					
15	Surface - 6		1525			2									X	X				
16	Surface - 12		1510			2									X	X				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Nomenoski	SCS	6/18/18	1740
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Mark	Chem	6/18/18	1740

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806072
Report Date: 06/22/18
Date Received: 06/19/18
Number of Samples: 11
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
Surface comp 1	06/19/18	806072-01A
Surface comp 2	06/19/18	806072-02A
Surface comp 11	06/19/18	806072-03A
Surface comp 10	06/19/18	806072-04A
Surface comp 9	06/19/18	806072-05A
Surface comp 8	06/19/18	806072-06A
Surface comp 6	06/19/18	806072-07A
Surface comp 5	06/19/18	806072-08A
Surface comp 4	06/19/18	806072-09A
Surface comp 7	06/19/18	806072-10A
Surface comp 3	06/19/18	806072-11A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806072
Report Date: 06/22/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	S. Comp 1	S. Comp 2	S. Comp 11	S. Comp 10	S. Comp 9	S. Comp 8	S. Comp 6	S. Comp 5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	195	143	100	43.0	92.5	195	184	151	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	18.6	12.7	33.9	14.9	11.9	16.4	18.7	15.6	1.00
Cobalt	11.2	7.96	5.79	2.51	6.16	11.1	11.3	10.2	2.00
Copper	27.7	18.7	28.3	14.6	16.4	26.0	27.3	22.2	2.00
Lead	33.0	7.10	62.4	76.0	19.3	16.1	12.4	37.9	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	16.8	11.8	14.4	8.04	9.96	16.3	17.0	14.9	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	47.1	36.9	46.1	18.2	27.3	43.9	48.7	39.0	2.00
Zinc	58.1	37.3	56.0	38.5	41.1	46.6	57.0	56.9	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	S. Comp 1	S. Comp 2	S. Comp 11	S. Comp 10	S. Comp 9	S. Comp 8	S. Comp 6	S. Comp 5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806072
Report Date: 06/22/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	S. Comp 4	S. Comp 7	S. Comp 3	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	2.00
Arsenic	ND	ND	ND	2.00
Barium	177	109	118	1.00
Beryllium	ND	ND	ND	1.00
Cadmium	ND	ND	ND	1.00
Chromium	16.7	13.8	11.7	1.00
Cobalt	10.7	6.95	7.30	2.00
Copper	26.8	21.8	25.5	2.00
Lead	19.8	13.5	11.1	2.00
Molybdenum	ND	ND	ND	2.00
Nickel	17.2	13.5	11.6	2.00
Selenium	ND	ND	ND	2.00
Silver	ND	ND	ND	1.00
Thallium	ND	ND	ND	2.00
Vanadium	45.5	29.9	31.6	2.00
Zinc	76.2	48.6	39.0	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	S. Comp 4	S. Comp 7	S. Comp 3	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA
EPA Method: 8081A Pesticides

Project No. 01217339.00 T3
Project Site: North Posse

Units: ppb or µg/kg

Job No: 806072
Report Date: 06/22/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

Client Sample ID:	S. Comp 1	S. Comp 10	S. Comp 9	S. Comp 3	Detection
Dilution Factor:	1	1	1	1	Limit
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Aldrin	ND	ND	ND	ND	2.0
Chlordane (total)	ND	1.29J	ND	ND	2.0
Chlordane (alpha)	ND	ND	ND	ND	2.0
4,4'-DDD	ND	2.19	ND	ND	2.0
4,4'-DDE	ND	6.25	ND	ND	2.0
4,4'-DDT	3.80	16.2	3.63	ND	2.0
Dieldrin	ND	1.11J	ND	ND	2.0
Endosulfan I	ND	ND	ND	ND	2.0
Endosulfan II	ND	ND	ND	ND	2.0
Endosulfan Sulfate	ND	ND	ND	ND	2.0
Endrin	ND	ND	ND	ND	2.0
Endrin aldehyde	ND	ND	ND	ND	2.0
Endrin ketone	ND	ND	ND	ND	2.0
Chlordane (gamma)	ND	ND	ND	ND	2.0
Heptachlor	ND	ND	ND	ND	2.0
Heptachlor epoxide	ND	ND	ND	ND	2.0
Alpha-BHC	ND	ND	ND	ND	2.0
Betta-BHC	ND	ND	ND	ND	2.0
Delta-BHC	ND	ND	ND	ND	2.0
Gamma-BHC, Lindane	ND	ND	ND	ND	2.0
Methoxychlor	ND	ND	ND	ND	10.0
Toxaphene	ND	ND	ND	ND	170.0
Analysis Date:	6/22/18	6/22/18	6/22/18	6/22/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 06/20/18
QC Lab ID: 806056-1A
Units: ppm
Job No: 806072

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	101.0	103.0	2.0%	30	70-130
Arsenic	ND	1.00	109.0	105.0	3.7%	30	70-130
Barium	ND	1.00	98.0	97.0	1.0%	30	70-130
Beryllium	ND	1.00	97.0	99.0	2.0%	30	70-130
Cadmium	ND	1.00	99.0	100.0	1.0%	30	70-130
Chromium	ND	1.00	98.0	101.0	3.0%	30	70-130
Cobalt	ND	1.00	98.0	101.0	3.0%	30	70-130
Copper	ND	1.00	98.0	97.0	1.0%	30	70-130
Lead	ND	1.00	100.0	102.0	2.0%	30	70-130
Molybdenum	ND	1.00	98.0	101.0	3.0%	30	70-130
Nickel	ND	1.00	100.0	100.0	0.0%	30	70-130
Selenium	ND	1.00	102.0	105.0	2.9%	30	70-130
Silver	ND	1.00	95.0	93.0	2.1%	30	70-130
Thallium	ND	1.00	105.0	106.0	0.9%	30	70-130
Vanadium	ND	1.00	103.0	104.0	1.0%	30	70-130
Zinc	ND	1.00	101.0	104.0	2.9%	30	70-130

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CHAIN OF CUSTODY RECORD

606072

Job No.: 012173 39.00

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Passe P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081A OCPs				
1	Surface Comp-1	6/19/18	1055	So		2									X	X				
2	Surface Comp-2		1100			1									X					
3	Surface Comp-11		1130			1									X					
4	Surface Comp-10		1135			2									X	X				
5	Surface Comp-9		1145			2									X	X				
6	Surface Comp-8		1150			1									X					
7	Surface Comp-6		1155			1									X					
8	Surface Comp-5		1200			1									X					
9	Surface Comp-4		1205			1									X					
10	Surface Comp-7		1210			1									X					
11	Surface Comp-3		1215			2									X	X				
12																				
13																				
14																				
15																				
16																				

ANALYSIS REQUIRED

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		C. Romanowski	SCS Engineers	6/19/18	1810
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chemt	6/19/18	1810

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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LACSD: 10167

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Certificate of Analysis

Client: SCS Engineers
3900 Kilroy Airport Way
Long Beach, CA

Attention: Ashley Hutchens

Project No. 01217339.00 T3
Project Site: North Posse

Job No: 806073
Report Date: 06/22/18
Date Received: 06/19/18
Number of Samples: 19
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB3-5	06/19/18	806073-01A
SB3-10	06/19/18	806073-02A
SB3-15	06/19/18	806073-03A
SB3-20	06/19/18	806073-04A
SB3-25	06/19/18	806073-05A
SB3-30	06/19/18	806073-06A
SB3-35	06/19/18	806073-07A
SB3-40	06/19/18	806073-08A
SB11-5	06/19/18	806073-09A
SB11-10	06/19/18	806073-10A
SB11-15	06/19/18	806073-11A
SB11-20	06/19/18	806073-12A
SB11-25	06/19/18	806073-13A
SB11-30	06/19/18	806073-14A
SB12-5	06/19/18	806073-15A
SB12-10	06/19/18	806073-16A
SB12-15	06/19/18	806073-17A
SB12-20	06/19/18	806073-18A
SB12-25	06/19/18	806073-19A

Reviewed and Approved:

For

Michael C.C. Lu
Laboratory Director

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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806073

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB3-35	6/19/2018	SB3-40	6/19/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	69.6	µg/kg	1	50	177	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/19/18				06/19/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: SCS Engineers **EPA Method:** 8260B **Units:** µg/kg or ppb **Job No:** 806073

Project Site: North Posse **Matrix:** Soil

	Sample ID	Sample Date	Sample ID	Sample Date
Project No.	SB11-15	6/19/2018	SB12-25	6/19/2018

Analyte	Results	Units	DF	DLR	Results	Units	DF	DLR
Benzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromoform	ND	µg/kg	1	1	ND	µg/kg	1	1
Bromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
n-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
sec-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
tert-Butylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Carbon Tetrachloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Chlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloroform	ND	µg/kg	1	1	ND	µg/kg	1	1
Chloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Chlorotoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
2-Chloroethyl vinyl ether	ND	µg/kg	1	2	ND	µg/kg	1	2
Dibromochloromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromo-3-chloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dibromoethane (EDB)	ND	µg/kg	1	1	ND	µg/kg	1	1
Dibromomethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,4-Dichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Dichlorodifluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
cis-1,2 Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
Trans-1,2-Dichloroethene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
2,2-Dichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
Cis-1,3-Dichloropropene	ND	µg/kg	1	1	ND	µg/kg	1	1
trans-1,3-Dichloproene	ND	µg/kg	1	1	ND	µg/kg	1	1
Ethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Hexachlorobutadiene	ND	µg/kg	1	1	ND	µg/kg	1	1
Isopropylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
4-Isopropyltoluene	ND	µg/kg	1	1	ND	µg/kg	1	1
Methylene Chloride	ND	µg/kg	1	5	ND	µg/kg	1	5
Naphthalene	ND	µg/kg	1	1	ND	µg/kg	1	1
n-propylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Styrene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2,2-Tetrachloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Tetrachloroethene(PCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Toluene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trichlorobenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,1-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,1,2-Trichloroethane	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichloroethene(TCE)	ND	µg/kg	1	1	ND	µg/kg	1	1
Trichlorofluoromethane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,3-Trichloropropane	ND	µg/kg	1	1	ND	µg/kg	1	1
1,2,4-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
1,3,5-Trimethylbenzene	ND	µg/kg	1	1	ND	µg/kg	1	1
Vinyl Chloride	ND	µg/kg	1	1	ND	µg/kg	1	1
Total Xylenes	ND	µg/kg	1	2	ND	µg/kg	1	2
Ethanol	ND	µg/kg	1	250	ND	µg/kg	1	250
MTBE	ND	µg/kg	1	1	ND	µg/kg	1	1
ETBE	ND	µg/kg	1	1	ND	µg/kg	1	1
DIPE	ND	µg/kg	1	1	ND	µg/kg	1	1
TAME	ND	µg/kg	1	1	ND	µg/kg	1	1
TBA	ND	µg/kg	1	50	ND	µg/kg	1	50
MEK	ND	µg/kg	1	10	ND	µg/kg	1	10
MIBK	ND	µg/kg	1	10	ND	µg/kg	1	10
2-Hexanone	ND	µg/kg	1	10	ND	µg/kg	1	10
Analysis Date:	06/19/18				06/19/18			

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

EPA Method: 8015M
units: mg/kg or ppm

Job No: 806073
Report Date: 06/22/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB3-5	mg/kg	0.46	1	0.20	516	1	5.0	513	1	10
SB3-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB3-25	mg/kg	0.32	1	0.20	ND	1	5.0	ND	1	10
SB3-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB3-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB11-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB12-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB12-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB12-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		06/19/18			06/19/18			06/19/18		
Analysis Date:		06/19/18			06/21/18			06/21/18		

ND : Not detected at or above DLR

DLR: Detection Limit for Reporting Purposes

CHEMTEK
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Certificate of Analysis

Client: SCS Engineers | **Project No.** | **Job No:** 806073
Sample Matrix: Soil | **Project Site:** North Posse | **Report Date:** 06/22/18
Date of Sample: 06/19/18
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 06/19/18

Client Sample ID:	SB3-5	Detection
Dilution Factor:	1	Limit
	µg/kg	(ppb)
Phenol	ND	200
bis(2-Chloroethyl)Ether	ND	200
2-Chlorophenol	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
Benzyl alcohol	ND	200
1,2-Dichlorobenzene	ND	200
2-Methylphenol(O-cresol)	ND	200
bis(2-Chloroisopropyl)Ether	ND	200
n-Nitroso-di-n-Propylamine	ND	200
4-Methylphenol(P-cresol)	ND	200
Hexachloroethane	ND	200
Nitrobenzene	ND	200
Isophorone	ND	200
2-Nitrophenol	ND	200
2,4-Dimethylphenol	ND	200
bis(2-Chloroethoxy) Methane	ND	200
2,4-Dichlorophenol	ND	400
1,2,4-Trichlorobenzene	ND	200
Naphthalene	ND	200
4-Chloroaniline	ND	200
Hexachlorobutadiene	ND	200
4-Chloro-3-Methylphenol	ND	200
2-Methlynaphthalene	229	200
Hexachlorocyclopentadiene	ND	200
2,4,6-Trichlorophenol	ND	200
2,4,5-Trichlorophenol	ND	200
2-Chloronaphthalene	ND	200
2-Nitroaniline	ND	200
Dimethyl Phthalate	ND	200
Acenaphthylene	ND	200
2,6-Dinitrotoluene	ND	200
3-Nitroaniline	ND	200
Carbazole	ND	200
Benzoic Acid	ND	800
Acenaphthene	ND	200
2,4-Dinitrophenol	ND	200
Dibenzofuran	ND	200
4-Nitrophenol	ND	200
2,4-Dinitrotoluene	ND	200
Fluorene	ND	200
Diethyl Phthalate	ND	200
4-Chlorophenyl Phenyl Ether	ND	200
4-Nitroaniline	ND	200
4,6-Dinitro-2-methylphenol	ND	400
N-Nitrosodiphenylamine	ND	200
4-Bromophenyl Phenyl Ether	ND	200
Hexachlorobenzene(total)	ND	200
Pentachlorophenol	ND	400
Phenanthrene	ND	200
Anthracene	ND	200
Di-n-Butyl Phthalate	ND	200
Fluoranthene	ND	200
Pyrene	ND	200
Butyl Benzyl Phthalate	ND	200
Benzo(a)anthracene	1,130	200
3,3-Dichlorobenzidine	ND	200
Chrysene	3,310	200
bis(2-Ethylhexyl) Phthalate	ND	200
Di-N-Octyl Phthalate	ND	200
Benzo(b)fluoranthene	ND	200
Benzo(k)fluoranthene	3,330	200
Benzo(a)pyrene	3,670	200
Indeno(1,2,3-C,D)Pyrene	1,370	200
Dibenz(a,h)anthracene	1,700	200
Benzo(g,h,i)perylene	3,840	200
N-Nitrosodiemethylamine	ND	200
Pyridine	ND	200
Aniline	ND	200
Benzidine	ND	200
Analysis Date:	6/19/18	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: SCS Engineers
Project Site: North Posse
Project No: 01217339.00 T3

Job No: 806073
Report Date: 06/22/18
Date of Sample: 06/19/18
Date Received: 06/19/18
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB3-5	SB11-5	SB12-5	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Antimony	ND	ND	ND	2.00
Arsenic	ND	ND	ND	2.00
Barium	738	48.9	42.3	1.00
Beryllium	ND	ND	ND	1.00
Cadmium	ND	ND	ND	1.00
Chromium	241	201	20.8	1.00
Cobalt	6.49	8.16	4.15	2.00
Copper	19.3	23.6	6.61	2.00
Lead	205	82.0	ND	2.00
Molybdenum	ND	ND	ND	2.00
Nickel	11.3	24.7	10.4	2.00
Selenium	ND	ND	ND	2.00
Silver	ND	ND	ND	1.00
Thallium	ND	ND	ND	2.00
Vanadium	114	21.1	22.3	2.00
Zinc	33.3	121	16.6	5.00
Analysis Date:	6/20/18	6/20/18	6/20/18	

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB3-5	SB11-5	SB12-5	Detection
Dilution Factor:	1	1	1	Limit
Analyte	(ppm)	(ppm)	(ppm)	(ppm)
Mercury	ND	ND	ND	0.05
Analysis Date:	6/20/18	6/20/18	6/20/18	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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QC Analysis Date: 06/19/18 **Job No:** 806005
QC Lab ID: 806073-19A
Units: ppb

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	107.9	114.5	5.9%	30	70-130
Benzene	ND	25	121.4	118.5	2.4%	30	70-130
Trichloroethylene	ND	25	128.6	129.4	0.6%	30	70-130
Toluene	ND	25	125.6	121.6	3.2%	30	70-130
Chlorobenzene	ND	25	128.1	129.1	0.8%	30	70-130

QC Analysis Date: 06/19/18
QC Lab ID: 806073-19A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	111.4	119.2	6.8%	30	70-130

QC Analysis Date: 06/21/18
QC Lab ID: 806073-19A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M(TPH Diesel Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	93.8	91.9	2.0%	30	70-130

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QC Analysis Date: 06/20/18 **Job No:** 806073
QC Lab ID: 806056-1A
Units: ppm

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	101.0	103.0	2.0%	30	70-130
Arsenic	ND	1.00	109.0	105.0	3.7%	30	70-130
Barium	ND	1.00	98.0	97.0	1.0%	30	70-130
Beryllium	ND	1.00	97.0	99.0	2.0%	30	70-130
Cadmium	ND	1.00	99.0	100.0	1.0%	30	70-130
Chromium	ND	1.00	98.0	101.0	3.0%	30	70-130
Cobalt	ND	1.00	98.0	101.0	3.0%	30	70-130
Copper	ND	1.00	98.0	97.0	1.0%	30	70-130
Lead	ND	1.00	100.0	102.0	2.0%	30	70-130
Molybdenum	ND	1.00	98.0	101.0	3.0%	30	70-130
Nickel	ND	1.00	100.0	100.0	0.0%	30	70-130
Selenium	ND	1.00	102.0	105.0	2.9%	30	70-130
Silver	ND	1.00	95.0	93.0	2.1%	30	70-130
Thallium	ND	1.00	105.0	106.0	0.9%	30	70-130
Vanadium	ND	1.00	103.0	104.0	1.0%	30	70-130
Zinc	ND	1.00	101.0	104.0	2.9%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

806073

Job No.: 01217339.00

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Posse P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF

Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE*	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8270 C SVOCs				Hold
1	SB3-5	6/19/18	748	SO				1			X						X	X				
2	SB3-10		750					1														X
3	SB3-15		753					1			X											
4	SB3-20		757					1														X
5	SB3-25		810					1			X											
6	SB3-30		814					1														X
7	SB3-35		830					4			X	X										
8	SB3-40		837					4			X	X										
9	SB11-5		915					1									X					
10	SB11-10		918					1														X
11	SB11-15		923					4				X										
12	SB11-20		930					4														X
13	SB11-25		943					1														X
14	SB11-30		950					1			X											
15	SB12-5		1318					1			X						X					
16	SB12-10		1321					1														X

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/19/18	1812
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:		CHM	6/19/18	1812

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

806073

Job No.: 01217 339.00

CUSTOMER INFORMATION

COMPANY NAME: SCS Engineers

PROJECT CONTACT: K Green Email: kgreen@scsengineers.com

ADDRESS: 3900 Kilroy Airport Way,

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Pass P.O. No.

SITE ADDRESS: 3041 Del Amo Blvd

SAMPLED BY: C. Romanowski EDF Turn Around Time NORM 24 hr 48 hr (X) Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	Hold				
1	SB12-15	6/14/18	1323	SO				1			X											
2	SB12-20	↓	1326	|				1										X				
3	SB12-25	↓	1336	|				4			X	X										
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	C. Romanowski	SCS Engineers	6/14/18	1812
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chemt	6/14/18	1812

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

APPENDIX C

AETL ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

SCS Engineers
3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806-6816

Number of Pages	**12**
Date Received	**07/13/2018**
Date Reported	**07/17/2018**

Telephone: (562)426-9544
Attention: Ashley Hutchens

Job Number	Order Date	Client
93253	07/13/2018	SCS

Project ID: 01217339.00 T3
Project Name: N. Posse
Site: 3041 Del Amo Blvd.
Torrance, CA 90503

Enclosed please find results of analyses of 3 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

№ 54162

AETL JOB No. 93253

Page 1 of 1

COMPANY: SCS Engineers
PROJECT MANAGER: A. Hutchens
COMPANY ADDRESS: 3900 Kilroy Airport Way, Suite 100
PHONE:
FAX:
PROJECT NAME: N. Posse
PROJECT #: 01217339.00 T3
SITE NAME AND ADDRESS: 3041 Del Amo Blvd, Torrance
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Title 22 Metals	PAHs	TPH (dtc)	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
1	Catalyst 1	93253-01	7/13/18	10:30		4oz jar		X	X	X		
2	Catalyst-2	93253.02	"	10:45		"		X	X	X		
3	Catalyst-3	93253.03	"	11:00		"		X	X	X		
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	3	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☒ RUSH ☐ SAME DAY ☒ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Ashley Hutchens		
Printed Name:	Ashley Hutchens		Sangisp
Date / Time:	7/13/18 1310		7/13/18 1500
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	Sangisp		Logan Lande
Date / Time:	7/13/18 1310		07/13/18 1500

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: SCS Engineers
Project Name: N. Posse
AETL Job Number: 73253
Date Received: 07/13/18 Received by: Jean Saude
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 2.2°C, No 2: ____, No 3: ____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): ____
How are samples preserved: ☐ None, ☐ Ice , ☒ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

SCS Engineers
3900 Kilroy Airport Way Suite 100
Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attention: Ashley Hutchens

Project ID: 01217339.00 T3
Date Received 07/13/2018
Date Reported 07/17/2018

Job Number	Order Date	Client
93253	07/13/2018	SCS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 07/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93253.01	Catalyst-1	07/13/2018	Solid	1
93253.02	Catalyst-2	07/13/2018	Solid	1
93253.03	Catalyst-3	07/13/2018	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	07/16/2018	2	Rush	mg/Kg
(8310)	07/16/2018	2	Rush	mg/Kg
(M8015D)	07/16/2018	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attn: Ashley Hutchens
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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 071618DB1

Our Lab I.D.			Method Blank	**93253.01**			
Client Sample I.D.				Catalyst-1			
Date Sampled				**07/13/2018**			
Date Prepared			**07/16/2018**	**07/16/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**07/16/2018**	**07/16/2018**			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C9-C22)	**1.0**	**10.0**	**ND**	**ND**			
TPH as Heavy Hydrocarbons (C23-C40)	**1.0**	**10.0**	**ND**	**10.9**			
TPH Total as Diesel and Heavy HC. C9-C40	**1.0**	**10.0**	**ND**	**10.9**			
Our Lab I.D.			Method Blank	**93253.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	**75-125**		**104**	**107**			

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 071618DB1

Our Lab I.D.			**93253.02**				
Client Sample I.D.			Catalyst-2				
Date Sampled			**07/13/2018**				
Date Prepared			**07/16/2018**				
Preparation Method			**3550B**				
Date Analyzed			**07/16/2018**				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C9-C22)	**2.0**	**20**	**4,770**				
TPH as Heavy Hydrocarbons (C23-C40)	**2.0**	**20**	**5,430**				
TPH Total as Diesel and Heavy HC. C9-C40	**2.0**	**20**	**10,200**				
Our Lab I.D.			**93253.02**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	**75-125**		**108**				

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 071618DB1

Our Lab I.D.			**93253.03**				
Client Sample I.D.			Catalyst-3				
Date Sampled			**07/13/2018**				
Date Prepared			**07/16/2018**				
Preparation Method			**3550B**				
Date Analyzed			**07/16/2018**				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C9-C22)	**1.0**	**10.0**	**ND**				
TPH as Heavy Hydrocarbons (C23-C40)	**1.0**	**10.0**	**69.0**				
TPH Total as Diesel and Heavy HC. C9-C40	**1.0**	**10.0**	**69.0**				
Our Lab I.D.			**93253.03**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	**75-125**		**105**				

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 071618IB1

Our Lab I.D.			Method Blank	**93253.01**			
Client Sample I.D.				Catalyst-1			
Date Sampled				**07/13/2018**			
Date Prepared			**07/16/2018**	**07/16/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**07/16/2018**	**07/16/2018**			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Benzo(a)anthracene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(a)pyrene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(b)fluoranthene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(k)fluoranthene	**0.010**	**0.020**	**ND**	**ND**			
Chrysene	**0.010**	**0.020**	**ND**	**0.0100J**			
Dibenzo(a,h)anthracene	**0.010**	**0.020**	**ND**	**ND**			
Indeno(1,2,3-cd)pyrene	**0.010**	**0.020**	**ND**	**ND**			
Acenaphthene	**0.010**	**0.020**	**ND**	**ND**			
Acenaphthylene	**0.010**	**0.020**	**ND**	**ND**			
Anthracene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(g,h,i)perylene	**0.010**	**0.020**	**ND**	**ND**			
Fluoranthene	**0.010**	**0.020**	**ND**	**ND**			
Fluorene	**0.010**	**0.020**	**ND**	**ND**			
Naphthalene	**0.010**	**0.020**	**ND**	**ND**			
Phenanthrene	**0.010**	**0.020**	**ND**	**0.0143J**			
Pyrene	**0.010**	**0.020**	**ND**	**ND**			
2-Methylnaphthalene	**0.010**	**0.020**	**ND**	**0.0211**			
Our Lab I.D.			Method Blank	**93253.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
p-Terphenyl-D14	**75-125**		**122**	**124**			

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 071618IB1

Our Lab I.D.			**93253.02**				
Client Sample I.D.			Catalyst-2				
Date Sampled			**07/13/2018**				
Date Prepared			**07/16/2018**				
Preparation Method			**3550B**				
Date Analyzed			**07/16/2018**				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Benzo(a)anthracene	**0.020**	**0.040**	**0.627**				
Benzo(a)pyrene	**0.020**	**0.040**	**0.572**				
Benzo(b)fluoranthene	**0.020**	**0.040**	**0.316**				
Benzo(k)fluoranthene	**0.020**	**0.040**	**ND**				
Chrysene	**0.020**	**0.040**	**0.816**				
Dibenzo(a,h)anthracene	**0.020**	**0.040**	**ND**				
Indeno(1,2,3-cd)pyrene	**0.020**	**0.040**	**ND**				
Acenaphthene	**0.020**	**0.040**	**ND**				
Acenaphthylene	**0.020**	**0.040**	**ND**				
Anthracene	**0.020**	**0.040**	**0.0220J**				
Benzo(g,h,i)perylene	**0.020**	**0.040**	**ND**				
Fluoranthene	**0.020**	**0.040**	**0.0731**				
Fluorene	**0.020**	**0.040**	**0.0214J**				
Naphthalene	**0.020**	**0.040**	**0.0438**				
Phenanthrene	**0.020**	**0.040**	**0.518**				
Pyrene	**0.020**	**0.040**	**0.747**				
2-Methylnaphthalene	**0.020**	**0.040**	**0.110**				
Our Lab I.D.			**93253.02**				
Surrogates	**%Rec.Limit**		**% Rec.**				
p-Terphenyl-D14	**75-125**		**112**				

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ANALYTICAL RESULTS

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 071618IB1

Our Lab I.D.			**93253.03**				
Client Sample I.D.			Catalyst-3				
Date Sampled			**07/13/2018**				
Date Prepared			**07/16/2018**				
Preparation Method			**3550B**				
Date Analyzed			**07/16/2018**				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Benzo(a)anthracene	**0.010**	**0.020**	**ND**				
Benzo(a)pyrene	**0.010**	**0.020**	**ND**				
Benzo(b)fluoranthene	**0.010**	**0.020**	**ND**				
Benzo(k)fluoranthene	**0.010**	**0.020**	**ND**				
Chrysene	**0.010**	**0.020**	**ND**				
Dibenzo(a,h)anthracene	**0.010**	**0.020**	**ND**				
Indeno(1,2,3-cd)pyrene	**0.010**	**0.020**	**ND**				
Acenaphthene	**0.010**	**0.020**	**ND**				
Acenaphthylene	**0.010**	**0.020**	**ND**				
Anthracene	**0.010**	**0.020**	**ND**				
Benzo(g,h,i)perylene	**0.010**	**0.020**	**ND**				
Fluoranthene	**0.010**	**0.020**	**ND**				
Fluorene	**0.010**	**0.020**	**ND**				
Naphthalene	**0.010**	**0.020**	**0.0133J**				
Phenanthrene	**0.010**	**0.020**	**0.0354**				
Pyrene	**0.010**	**0.020**	**0.0113J**				
2-Methylnaphthalene	**0.010**	**0.020**	**0.0989**				
Our Lab I.D.			**93253.03**				
Surrogates	**%Rec.Limit**		**% Rec.**				
p-Terphenyl-D14	**75-125**		**124**				

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Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0716182C1

Our Lab I.D.			Method Blank	93253.01	93253.02	93253.03	
Client Sample I.D.				Catalyst-1	Catalyst-2	Catalyst-3	
Date Sampled				07/13/2018	07/13/2018	07/13/2018	
Date Prepared			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Matrix			Solid	Solid	Solid	Solid	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Antimony	1.0	5.0	ND	ND	ND	ND	
Arsenic	1.0	5.0	ND	ND	ND	ND	
Barium	2.5	5.0	ND	29.9	220	35.9	
Beryllium	1.3	2.5	ND	ND	ND	ND	
Cadmium	1.3	2.5	ND	ND	ND	ND	
Chromium	2.5	5.0	ND	6.99	10.3	6.06	
Cobalt	2.5	5.0	ND	ND	ND	ND	
Copper	2.5	5.0	ND	67.3	169	122	
Lead	2.5	5.0	ND	58.2	97.4	5.15	
Mercury (By EPA 7471)	0.1	0.2	ND	ND	0.597	ND	
Molybdenum	2.5	5.0	ND	ND	ND	ND	
Nickel	2.5	5.0	ND	14.2	14.7	5.10	
Selenium	1.0	5.0	ND	ND	ND	ND	
Silver	2.5	5.0	ND	6.61	ND	ND	
Thallium	0.7	5.0	ND	ND	ND	ND	
Vanadium	2.5	5.0	ND	10.4	24.8	ND	
Zinc	2.5	5.0	ND	73.5	119	54.6	

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QUALITY CONTROL RESULTS

Ordered By

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Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attn: Ashley Hutchens

Site

3041 Del Amo Blvd.
Torrance, CA 90503

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Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0716182C1; Dup or Spiked Sample: 93228.01; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	49.5	99.0	50.0	49.2	98.4	<1	75-125	<15
Arsenic	0.00	50.0	48.2	96.4	50.0	50.0	100	3.67	75-125	<15
Barium	91.1	50.0	133	83.8	50.0	132	81.8	2.42	75-125	<15
Beryllium	0.00	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15
Cadmium	0.00	50.0	48.5	97.0	50.0	48.7	97.4	<1	75-125	<15
Chromium	15.6	50.0	63.7	96.2	50.0	63.8	96.4	<1	75-125	<15
Cobalt	5.14	50.0	50.6	90.9	50.0	50.7	91.1	<1	75-125	<15
Copper	13.9	50.0	64.4	101	50.0	64.4	101	<1	75-125	<15
Lead	0.00	50.0	45.1	90.2	50.0	44.2	88.4	2.02	75-125	<15
Mercury (By EPA 7471)	0.0207	0.500	0.498	95.5	0.500	0.494	94.7	<1	75-125	<15
Molybdenum	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15
Nickel	12.6	50.0	55.8	86.4	50.0	55.8	86.4	<1	75-125	<15
Selenium	0.00	50.0	36.1	72.2	50.0	35.9	71.8	<1	75-125	<15
Silver	0.00	50.0	45.1	90.2	50.0	45.0	90.0	<1	75-125	<15
Thallium	0.00	50.0	40.7	81.4	50.0	41.4	82.8	1.71	75-125	<15
Vanadium	31.3	50.0	81.2	99.8	50.0	81.1	99.6	<1	75-125	<15
Zinc	39.6	50.0	86.0	92.8	50.0	85.8	92.4	<1	75-125	<15

QC Batch No: 0716182C1; Dup or Spiked Sample: 93228.01; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.8	104	50.0	51.4	103	<1	75-125	<15	
Arsenic	50.0	51.7	103	50.0	51.7	103	<1	75-125	<15	
Barium	50.0	52.3	105	50.0	52.8	106	<1	75-125	<15	
Beryllium	50.0	52.9	106	50.0	53.7	107	<1	75-125	<15	
Cadmium	50.0	52.5	105	50.0	53.0	106	<1	75-125	<15	
Chromium	50.0	53.3	107	50.0	53.1	106	<1	75-125	<15	
Cobalt	50.0	54.3	109	50.0	54.1	108	<1	75-125	<15	
Copper	50.0	53.3	107	50.0	52.0	104	2.84	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0716182C1; Dup or Spiked Sample: 93228.01; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**52.8**	**106**	**50.0**	**51.9**	**104**	**1.90**	**75-125**	**<15**	
Mercury (By EPA 7471)	**0.500**	**0.474**	**94.7**	**0.500**	**0.475**	**95.0**	**<1**	**75-125**	**<15**	
Molybdenum	**50.0**	**52.9**	**106**	**50.0**	**52.4**	**105**	**<1**	**75-125**	**<15**	
Nickel	**50.0**	**50.7**	**101**	**50.0**	**51.2**	**102**	**<1**	**75-125**	**<15**	
Selenium	**50.0**	**51.8**	**104**	**50.0**	**50.8**	**102**	**1.94**	**75-125**	**<15**	
Silver	**50.0**	**51.3**	**103**	**50.0**	**51.7**	**103**	**<1**	**75-125**	**<15**	
Thallium	**50.0**	**53.4**	**107**	**50.0**	**53.5**	**107**	**<1**	**75-125**	**<15**	
Vanadium	**50.0**	**54.1**	**108**	**50.0**	**54.7**	**109**	**<1**	**75-125**	**<15**	
Zinc	**50.0**	**54.1**	**108**	**50.0**	**54.1**	**108**	**<1**	**75-125**	**<15**	

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attn: Ashley Hutchens
Page: **11**

Project ID: 01217339.00 T3
Project Name: N. Posse

Site

3041 Del Amo Blvd.
Torrance, CA 90503

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 071618IB1; Dup or Spiked Sample: 0716; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0381	76.2	0.0500	0.0419	83.8	9.5	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0416	83.2	0.0500	0.0404	80.8	2.9	75-125	<20
Naphthalene	0.00	0.500	0.377	75.4	0.500	0.379	75.8	<1	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.456	114	0.400	0.472	118	3.4	75-125	<20

QC Batch No: 071618IB1; Dup or Spiked Sample: 0716; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0413	82.6	75-125						
Benzo(a)pyrene	0.0500	0.0391	78.2	75-125						
Naphthalene	0.500	0.383	76.6	75-125						
LCS										
Acenaphthene	0.500	0.403	80.6	75-125						
Acenaphthylene	1.00	0.816	81.6	75-125						
Anthracene	0.0500	0.0422	84.4	75-125						
Benzo(b)fluoranthene	0.100	0.0850	85.0	75-125						
Benzo(g,h,i)perylene	0.100	0.0793	79.3	75-125						
Benzo(k)fluoranthene	0.0500	0.0424	84.8	75-125						
Chrysene	0.0500	0.0416	83.2	75-125						
Dibenzo(a,h)anthracene	0.100	0.0838	83.8	75-125						
Fluoranthene	0.100	0.0848	84.8	75-125						
Fluorene	0.100	0.0842	84.2	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0428	85.6	75-125						
Phenanthrene	0.0500	0.0395	79.0	75-125						
Pyrene	0.0500	0.0396	79.2	75-125						
Surrogates										
p-Terphenyl-D14	0.400	0.456	114	75-125						

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QUALITY CONTROL RESULTS

Ordered By

SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806-6816

Telephone: (562)426-9544
Attn: Ashley Hutchens
Page: **12**

Site

3041 Del Amo Blvd.
Torrance, CA 90503

Project ID: 01217339.00 T3
Project Name: N. Posse

AETL Job Number	Submitted	Client
93253	07/13/2018	SCS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 071618DB1; Dup or Spiked Sample: 93228.06; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C9-C22)	0.00	500	520	104	500	520	104	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	94.2	94.2	100	95.1	95.1	<1	75-125	<20

QC Batch No: 071618DB1; Dup or Spiked Sample: 93228.06; LCS: Blank; QC Prepared: 07/16/2018; QC Analyzed: 07/16/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C9-C22)	500	515	103	500	555	111	7.5	75-125		
Surrogates										
Chlorobenzene	100	94.7	94.7	100	97.0	97.0	2.4	75-125		

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

APPENDIX D

LA TESTING LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order:	331811743
Customer ID:	SCSE34
Customer PO:	
Project ID:	

Attention:	Christopher Romanowski	**Phone:**	(562) 426-9544
	SCS Engineers	**Fax:**	(562) 427-0805
	3900 Kilroy Airport Way	**Received Date:**	06/01/2018 5:35 PM
	Suite 100	**Analysis Date:**	06/08/2018
	Long Beach, CA 90806	**Collected Date:**	06/01/2018
Project:	01217339.00 Task 3		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1 *331811743-0001*	3041 Del Amo. Blvd Exterior - Insulation	Gray Fibrous Homogeneous	20% Min. Wool	50% Non-fibrous (Other)	30% Amosite
2 *331811743-0002*	3041 Del Amo. Blvd Exterior - Gasket Wrap	Gray Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
3 *331811743-0003*	3041 Del Amo. Blvd Exterior - Misc. Wrap	White Fibrous Homogeneous		30% Non-fibrous (Other)	70% Chrysotile
4 *331811743-0004*	3041 Del Amo. Blvd Exterior - Woven Insulation	Gray Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
5 *331811743-0005*	3041 Del Amo. Blvd Exterior - Tar Paper	Black Fibrous Homogeneous		50% Non-fibrous (Other)	50% Chrysotile
6 *331811743-0006*	3041 Del Amo. Blvd Exterior - Orange Brick	Orange Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7 *331811743-0007*	3041 Del Amo. Blvd Exterior - Yellow Brick	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Christopher Miranda (7)

Michael DeCavallas, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government . Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0, CA ELAP 1406

Initial report from: 06/08/2018 12:19:59

OrderID: 331811743

Asbestos Chain of Custody

LA Testing Order Number *(Lab Use Only)*:

#331811743

PHONE: ( )
FAX: ( )

Company: SCS Engineers		**EMSL Customer ID:**	
Street: 3900 Kilroy Airport Way STE 100		**City:** Long Beach	**State/Province:** CA
Zip/Postal Code: 90806	**Country:** US	**Telephone #:**	**Fax #:**
Report To (Name): C. Romanowski		**Please Provide Results:** ☐ Fax ■ Email	
Email Address: cromanowski@scsengineers.com		**Purchase Order:**	
Project Name/Number: 01217339.00 Task 3		**Connecticut Samples:** ☐ Commercial ☐ Residential	
U.S. State Samples Taken: CA		**EMSL Project ID** *(Internal Use Only)*:	

LA Testing-Bill to: ☐ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ■ 1 Week | ☐ 2 Week

*For TEM Air 3 hours through 6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with LA Testing's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ■ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: C. Romanowski | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	See attached		

Client Sample # (s): 1 - 7 **Total # of Samples:** 7

Relinquished (Client): **Date:** 6/1/18 **Time:** 1040

Received (Lab): EMENDOZA (WI) **Date:** 6/1/18 **Time:** 5:35PM

Comments/Special Instructions:

Controlled Document – COC-04 Asbestos – R3.1 – 3/30/2017

#331811743

BULK SAMPLE SUMMARY LOG

PAGE 1 OF 1

SCS ENGINEERS
LONG BEACH, CA

	SAMPLE NUMBER	BUILDING	AREA	ROOM	MATERIAL TYPE	MATERIAL CONDITION	COLOR	SAMPLE LOCATION
1	1	3041 Del Amo Blvd	Exterior		Insulation	Good	Gray	
2	2				Gasket Wrap			
3	3				Misc. Wrap			
4	4				Woven Insulation			
5	5				Tar Paper	Fair	Black	
6	6				Orange Brick	Good	Orange	
7	7				Yellow brick		Yellow	
8								
9								
10								
11								
12								

INSPECTOR(S): C. Romanowski DATE: 6/1/2018 JOB NO.: 0121739.00

Task 3

OrderID: 331811743

APPENDIX E

EMSL LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 858-1292
Email: WestmontAsbLab@emsl.com

EMSL Reference: 041819473
Customer ID: EENG25
Customer PO: ECLP-0929
Project ID: ECLP-0929

Attn: Kevin Green
SCS Engineers
3900 Kilroy Airport Way
Suite 100
Long Beach, CA 90806

Phone : (562) 426-9544
Fax : (562) 427-0805
Date Received : 6/28/2018
Date Analyzed : 7/2/2018
Date Reported : 7/6/2018

Project: 01217339.00 Task 3

ASTM D7521: Standard Test Method for the Determination of Asbestos in Soil Summary Report

Sample ID Client / EMSL	Asbestos Type(s)	PLM Asbestos Concentration by Sieve Fraction Coarse	Medium	Fine	PLM Weighted Asbestos Concentration	TEM Qualitative Fine	TEM Quantitaive Fine Str/µg
Surf-3 *041819473-0001*	Chrysotile	<1%	<1%	<0.25%	**0.25%**	**N/A**	N/A
SB4 *041819473-0002*	Chrysotile	5%	5%	0.75%	**5%**	**N/A**	N/A
SB6 *041819473-0003*	Chrysotile	3%	4%	ND	**3%**	**N/A**	N/A
Surf-16 *041819473-0004*	Chrysotile	3%	<1%	ND	**0.46%**	**N/A**	N/A
Surf-12 *041819473-0005*	Chrysotile	2%	6%	0.5%	**5%**	**N/A**	N/A
Surf-6 *041819473-0006*	Chrysotile Amosite	ND	<1% <1%	ND	**0.46%**	**N/A**	N/A
Surf-13 *041819473-0007*	Chrysotile	2%	<1%	<0.25%	**0.58%**	**N/A**	N/A
Surf-11 *041819473-0008*	Chrysotile Amosite	2% 2%	2% <1%	<0.25% <0.25%	**3%**	**N/A**	N/A

Analyst(s)

Frank DiCrescenzo (PLM) Chelsey Donnelly (PLM)
Andrew Castellano (PLM) Nancy Stalter (PLM)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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OrderID: 041819473

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody For California Samples

EMSL Order Number (*Lab Use Only*): 041819473

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company Name : SCS Engineers		**EMSL Customer ID:**	
Street: 3900 Kilroy Airport Way, Suite 100		**City:** Long Beach	**State/Province:** CA
Zip/Postal Code: 90806	**Country:** US	**Telephone #:** 526-426-9544	**Fax #:** 562-427-0805
Report To (Name): Kevin Green		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: kgreen@scsengineers.com & cromanowski@		**Purchase Order:**	
Project Name/Number: 01217339.00 Task 3		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: CA			

EMSL Bill-to: ☐ Same ☑ Different: If Bill-to is different, note instructions in comments/special instructions below.
Third-party billing requires written authorization.

Turnaround Time (TAT) Options – Please Check

☐ 3 Hour* ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

☐ **4-4.5hr TAT** (AHERA only)

**TEM Air 3 hr., please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM – Bulk (Reporting Limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ 400 (<0.25%) Point Count
- ☐ 400 (<0.25%) Point Count with Gravimetric Reduction
- ☐ 1000 (<0.1%) Point Count
- ☐ 1000 (<0.1%) Point Count with Gravimetric Reduction
- ☐ NIOSH 9002 (<1%)

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM – Air
- ☐ AHERA 40 CFR, Part 763
- ☐ EPA Level II
- ☐ NIOSH 7402
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ Chatfield SOP
- ☐ TEM EPA 600/R-93/116 with Milling Prep (<0.1%)**

**Lower reporting limits available*

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite (Reporting Limit)
- ☐ PLM CARB 435 – A (0.25%)
- ☐ PLM CARB 435 – B (0.1%)
- ☐ TEM CARB 435 – B (0.1%)*
- ☐ TEM CARB 435 – C (0.01%)*
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ PLM EPA 600/R-93/116 with Milling Prep (<1%)
- ☐ PLM EPA 600/R-93/116 with Milling Prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with Milling Prep (<0.1%)*

**Lower reporting limits available*

Other ☒ ASTM7521 PLM/TEM

2018 JUN 28 AM 11:03 RECEIVED EMSL CINNAMINSON, NJ

☐ **Stop At First Positive** ***(Clearly identify homogenous groups below)*** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Sampler's Name: C. Romanowski | **Sampler's Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Surf-3	Soil		6/19/18
SB4	Soil		6/25/18
SB6	Soil		6/25/18
Surf-16	Soil		6/19/18
Surf-12	Soil		6/20/18

Client Sample # (s): - **Total # of Samples:** 5

Relinquished (Client): **Date:** 6/26/18 **Time:** 1550

Received (Lab): **Date:** 6/28/18 **Time:** 935

Comments/Special Instructions:

BillTo SCS Engineers, 3900 Kilroy Airport Way, Suite 100, Long Beach, CA, 90806, US Attention: lkj Phone: 562-426-9544 Email 01SWAccountspayable@scsengineers.com

OrderID: 041819473

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody
For California Samples

EMSL Order Number *(Lab Use Only)*:

041819473

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Surf-6	Soil		6/19/18
Surf-13	Soil		6/20/18
Surf-11	Soil		6/19/18

RECEIVED
EMSL
CINNAMINSON, N.J.
2018 JUN 28 AM 11:04

***Comments/Special Instructions:**

BillTo: SCS Engineers, 3900 Kilroy Airport Way, Suite 100, Long Beach, CA, 90806, US
Attention: lkj Phone: 562-426-9544 Email: kwest@emsl.com
Purchase Order:

Page _____ of _____ pages

APPENDIX F

STANTEC PROVIDED DOCUMENTATION



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- GP-1 16' — DPT SOIL/SOIL VAPOR BORING LOCATION
- HSA-1 20.5' — HSA GEOTECH/ENVIRONMENTAL SOIL BORING LOCATION
- APPROXIMATE LOCATIONS WHERE DARK SURFACE FEATURES OBSERVED ON AERIAL PHOTOGRAPHS
- APPROXIMATE LIMITS OF EXISTING EXCAVATION PIT

N

0 250 500

APPROXIMATE SCALE IN FEET

N□arra t□s □ad □□Sta t□ C□sut□g S□r□□s l□□, as t□ t□ a□ura□, r□a□□□, □r □□□□t□□ss □t□s data. Org□a data □□r□ □□□□d r□□ar□us s□ur□ts. T□s □□r□at□□a□□t □□t Nat□a Ma□ A□ura□Sta□dards. T□s r□du t□as d□□□□□d □□□br□□a□, a□d □a□□□u dat□ d□t□ut □t□at□□. A□r□r□du t□□□a□r sut□a ss□s a□a d□r□□at□□.

Stantec

FOR:
CT REALTY
TORRANCE REFINERY
WEST DEL AMO BOULEVARD
TORRANCE, CALIFORNIA

□□□E PLA□

FIGURE: □

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
1858040020	STA	BV	BV	09/25/17

Table 1
Summary of TPH and VOC Data
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	TPH (mg/Kg)					VOCs (ug/Kg)[a]													
			C_4-C_{12}	C_{13}-C_{22}	C_{23}-C_{32}	C_{33}-C_{40}	C_4-C_{40}	Benzene	Ethylbenzene	Toluene	p/m-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB	Napthalene	4-isopropylytoluene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	sec-butylbenzene	Other VOCs
Hollow Stem Auger Borings																					
HSA-1-5	9/6/2017	5	**2.9**	**16000.0**	**5500.0**	**1200.0**	**22,703**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-1-10	9/6/2017	10	**2,100**	**48,000**	**19,000**	**3,500**	**72,600**	<250	**1,500**	<250	**1,800**	**1,600**	**7,200**	**1,900**	**14,000**	**1,600**	**470**	**2,100**	**1,300**	**970**	<varies
HSA-1-15	9/6/2017	15	**290**	**2,800**	**4,300**	**1,300**	**8,690**	<250	<250	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<varies
HSA-1-20	9/6/2017	20	**1.3**	<10	<10	<10	**1**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-1-25	9/6/2017	25	**2.7**	**260**	**95**	<10	**358**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**6.7**	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-2-5	9/7/2017	5	<1.0	**250**	**450**	**270**	**970**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-2-10	9/7/2017	10	**2,000**	**25,000**	**8,400**	**1,900**	**37,300**	**650**	**8,100**	<250	<500	<250	<250	<250	**23,000**	<200	**4,600**	**3,400**	**6,900**	**3,500**	<varies
HSA-2-15	9/7/2017	15	**3,400**	**46,000**	**12,000**	**3,500**	**64,900**	**1,300**	**12,000**	**3,700**	**16,000**	**8,100**	**32,000**	**8,800**	**37,000**	**3,500**	**4,700**	**6,300**	**7,300**	**3,400**	<varies
HSA-2-20	9/7/2017	20	**2,700**	**6,400**	**1,800**	**590**	**11,490**	<250	**2,100**	<250	**2,000**	**1,000**	**4,300**	**990**	**29,000**	**370**	**4,200**	**4,300**	**7,000**	**3,300**	<varies
HSA-3-5	9/6/2017	5	<1.0	**1,700**	**1,700**	<500	**3,400**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-3-10	9/6/2017	10	<1.0	**61**	**110**	**38**	**209**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-3-15	9/6/2017	15	<1.0	**130**	**59**	<10	**189**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-3-20	9/6/2017	20	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-4-10	9/6/2017	10	**300**	**15,000**	**6,000**	**1,100**	**22,400**	<250	**2,500**	**380**	**3,700**	**3,600**	**6,100**	**1,400**	**6,200**	**340**	**890**	**610**	**1,600**	**320**	<varies
HSA-4-15	9/6/2017	15	**210**	**480**	**290**	**280**	**1,260**	<250	**1,800**	<250	**1,300**	**1,100**	**2,500**	**420**	**2,100**	<250	**520**	**300**	**900**	<250	<varies
HSA-4-20	9/6/2017	20	**640**	**16,000**	**4,000**	**650**	**21,290**	<250	**6,300**	<250	**770**	**400**	**480**	<250	**20,000**	**660**	**760**	**700**	**2,200**	<250	<varies
HSA-4-25	9/6/2017	25	**970**	**3,600**	**1,200**	**290**	**6,060**	<250	**5,400**	<250	**3,600**	**1,800**	**5,300**	**1,100**	**14,000**	**1,000**	**1,100**	**960**	**2,300**	**680**	<varies
HSA-5-5	9/7/2017	5	<1.0	<10	**41**	**12**	**53**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-5-10	9/7/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-5-15	9/7/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-6-5	9/7/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-6-10	9/7/2017	10	<1.0	<10	<10	<10	<10	**16**	<5.0	<5.0	<10	<5.0	**13**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**MTBE: 47**
HSA-6-15	9/7/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**MTBE: 30**
HSA-7-5	9/7/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-7-15	9/7/2017	15	**2.1**	**210**	**21**	<10	**233**	<5.0	<5.0	<5.0	<10	<5.0	**17**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.9**	<5.0	<varies
HSA-7-20	9/7/2017	20	<1.0	**14**	<10	<10	**14**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-8-5	9/7/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-8-10	9/7/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
HSA-8-15	9/7/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies

Table 1
Summary of TPH and VOC Data
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	TPH (mg/Kg)					VOCs (ug/Kg)[a]													
			C_4-C_{12}	C_{13}-C_{22}	C_{23}-C_{32}	C_{33}-C_{40}	C_4-C_{40}	Benzene	Ethylbenzene	Toluene	p/m-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB	Napthalene	4-isoproplytoluene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	sec-butylbenzene	Other VOCs
Geoprobe Borings																					
GP-1-5	9/8/2017	5	<1.0	**100**	**270**	**330**	**700**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-1-10	9/8/2017	10	**1,800**	**19,000**	**4,000**	**1,200**	**26000**	**1,800**	**11,000**	**6,000**	**34,000**	**14,000**	**53,000**	**15,000**	**40,000**	**4,200**	**3,200**	**6,000**	**6,100**	**2,700**	<varies
GP-1-15	9/8/2017	15	**2,300**	**15,000**	**3,200**	**1,200**	**21700**	**3,200**	**13,000**	**490**	**11,000**	**2,200**	**39,000**	**12,000**	**51,000**	**4,500**	<250	**6,500**	**6,900**	**3,200**	**tert-Butylbenzene: 260**
GP-1-20	9/8/2017	20	**4,900**	**10,000**	**2,200**	**760**	**17860**	**1,100**	**13,000**	**2,600**	**36,000**	**11,000**	**60,000**	**25,000**	**28,000**	**6,600**	**3,500**	**7,400**	**7,500**	**2,800**	**Chloroform: 1,100 tert-Butylbenzene: 1,000**
GP-2-5	9/8/2017	5	<1.0	**1,000**	**2,000**	**2,200**	**5200**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-2-10	9/8/2017	10	<1.0	**5,000**	**3,600**	**780**	**9380**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**5.0**	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-2-15	9/8/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**5.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-2-20	9/8/2017	20	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**5.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-3-5	9/8/2017	5	<1.0	**1,900**	**4,200**	**4,500**	**10600**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-3-10	9/8/2017	10	**1,800**	**130,000**	**63,000**	**23,000**	**217800**	**2,300**	**12,000**	**360**	**7,600**	**2,400**	**24,000**	**6,600**	**35,000**	**3,700**	**4,600**	**4,200**	**6,700**	**2,900**	<varies
GP-3-15	9/8/2017	15	**680**	**3,500**	**990**	**340**	**5510**	<250	**1,700**	<250	<500	<250	**370**	<250	**4,900**	**950**	**440**	**820**	**1,300**	**480**	<varies
GP-3-20	9/8/2017	20	**420**	**1,100**	**330**	**70**	**1920**	<250	**630**	<250	<500	<250	<250	<250	**790**	**310**	<250	<250	**640**	<250	<varies
GP-4-5	9/8/2017	5	**270**	**120,000**	**11,000**	**6,300**	**137570**	<25	<25	<25	<50	<25	**140**	<25	<25	<25	<25	<25	<25	<25	<varies
GP-4-10	9/8/2017	10	**570**	**50,000**	**17,000**	**4,500**	**72070**	<25	**30**	<25	<50	**63**	**120**	<25	**920**	<25	<25	<25	**27**	<25	<varies
GP-4-15	9/8/2017	15	**72**	**310**	**150**	<10	**532**	<250	<250	<250	<500	<250	<250	<250	<250	<250	<250	<250	<250	<250	<varies
GP-4-20	9/8/2017	20	**1.7**	**100**	**40**	<10	**142**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-5-5	9/8/2017	5	<1.0	**6,300**	**15,000**	**8,000**	**29300**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**Methylene Chloride: 41**
GP-5-10	9/8/2017	10	**1,300**	**95,000**	**29,000**	**6,400**	**131700**	<250	**13,000**	**1,600**	**8,700**	**4,200**	**12,000**	**4,700**	**29,000**	**1,000**	**4,200**	**2,200**	**5,600**	**1,900**	<varies
GP-5-15	9/8/2017	15	**1,100**	**19,000**	**4,500**	**730**	**25330**	**780**	**5,700**	**8,100**	**19,000**	**9,500**	**23,000**	**8,100**	**31,000**	**2,000**	**1,400**	**2,800**	**3,500**	**1,000**	<varies
GP-5-20	9/8/2017	20	**670**	**3,000**	**7,400**	**780**	**11850**	**670**	**10,000**	**980**	**12,000**	**2,500**	**50,000**	**5,900**	**40,000**	**4,600**	**3,400**	**3,900**	**6,900**	**1,900**	<varies
GP-6-5	9/8/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-6-10	9/8/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-6-15	9/8/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-7-5	9/8/2017	5	<1.0	**2,400**	**2,000**	**520**	**4,920**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-7-10	9/8/2017	10	**58**	**4,700**	**3,200**	<500	**7,958**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-7-15	9/8/2017	15	**540**	**7,500**	**3,600**	**1,400**	**13,040**	<250	**12,000**	<250	<500	**270**	<250	<250	**19,000**	<250	**3,000**	**1,700**	**6,900**	**1,100**	<varies
GP-7-20	9/8/2017	20	**4.5**	**93**	<10	<10	**98**	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	**27**	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-8-5	9/8/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-8-10	9/8/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-8-15	9/8/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-9-5	9/8/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-9-10	9/8/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-9-15	9/8/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-10-5	9/8/2017	5	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-10-10	9/8/2017	10	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
GP-10-15	9/8/2017	15	<1.0	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<varies
Los Angeles Regional Water Quality Control Board - Maximum Soil Screening Level[1]			$_{100}$[2]	1,000	10,000	NE	NE	$_{33}$[5]	7,000[5]	2000[5]	20,000[5][6]	20,000[5,6]	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes: (1) Maximum soil screening levels for TPH and BTEX above drinking water aquifers (LARWQCB, 1996)
(2) Soil screening level for carbon chain C4-C12 concentrations 20-150 feet above groundwater
(3) Soil screening level for carbon chain C13-C22 concentrations 20-150 feet above groundwater
(4) Soil screening level for carbon chain C23-C32 concentrations 20-150 feet above groundwater
(5) Soil screening level for concentrations 80-150 feet above groundwater in gravel
(6) reported soil screening level is for combine p/m-xylene and o-xylene concentrations

µg/Kg - micrograms per kilogram
mg/Kg - milligrams per kilogram
NE - not established
NA-not analyzed
a - Analyzed following EPA Method 8260B
b - analyzed following modified EPA method 8015B

Table 2

Summary of Soil Lead Analytical Results

Torrance Refinery - North Posse Parcel

Sample ID	Sample Date	Sample Depth (feet bgs)	Lead Concentrations		
			Total Lead[(1)] (mg/Kg)	STLC Lead[(2)] (mg/L)	TCLP Lead (mg/L)
Hollow Stem Auger Borings					
HSA-1-5	9/6/2017	5	**220**	**15**	**0.62**
HSA-1-10	9/6/2017	10	**130**	**2.6**	<0.25
HSA-1-15	9/6/2017	15	**690**	---	---
HSA-1-20	9/6/2017	20	**1.3**	---	---
HSA-2-5	9/7/2017	5	**400**	**33**	**1.4**
HSA-2-10	9/7/2017	10	**720**	**11**	<0.25
HSA-2-15	9/7/2017	15	**480**	<1.0	<0.25
HSA-3-5	9/6/2017	5	**120**	**10**	<0.25
HSA-3-10	9/6/2017	10	**24**	---	---
HSA-3-15	9/6/2017	15	**17**	---	---
HSA-4-5	9/6/2017	5	**150**	**4.5**	<0.25
HSA-4-10	9/6/2017	10	ND	---	---
HSA-4-15	9/6/2017	15	**340**	**21**	<0.25
HSA-4-20	9/6/2017	20	**3,200**	---	---
Geoprobe Borings					
GP-1-5	9/8/2017	5	**92**	---	---
GP-1-10	9/8/2017	10	**23**	---	---
GP-1-15	9/8/2017	15	**82**	---	---
GP-2-5	9/8/2017	5	**740**	**35**	**3.0**
GP-2-10	9/8/2017	10	**200**	**20**	**0.62**
GP-3-5	9/8/2017	5	**460**	**15**	**0.40**
GP-4-5	9/8/2017	5	**210**	**19**	<0.25
GP-4-10	9/8/2017	10	**86**	---	---
GP-5-5	9/8/2017	5	**14,000**	**1,000**	**21**
GP-5-10	9/8/2017	10	**230**	**1.6**	<0.25
GP-7-5	9/8/2017	5	**22**	---	---

Notes: (1) Total Lead by EPA method 6010B

(2) STLC - Soluble Threshold Limit Conentration following California Waste

(3) TCLP - Toxicity Characteristic Leaching Procedure

mg/Kg - milligrams per kilogram mg/L - milligrams per liter

--- not analyzed

<0.25 - analyte not detected above stated laboratory reporting limit

Table 3
Summary of Soil Vapor Analytical Results
VOCs
Torrance Refinery - North Posse Parcel

Sample ID	Sample Date	Sample Depth (feet bgs)	VOCs (ug/m^3)[a]													
			Benzene	Ethylbenzene	Toluene	p/m-Xylene	o-Xylene	1,2,4-TMB	1,3,5-TMB	Napthalene	4-isopropylytoluene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	sec-butylbenzene	Chloroform	Other VOCs
GP-1-5	9/12/2017	5	<80	<80	<80	<80	<80	**1,150**	**869**	<400	<80	<80	<80	<80	**1,930**	<80	<varies
GP-1-15	9/12/2017	15	**81,500**	**28,600**	<800	**9,470**	<800	**20,000**	<800	<4,000	<800	<800	<800	<800	<800	<800	<varies
GP-2-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-2-15	9/12/2017	15	<80	<80	<80	<80	<80	<80	<80	<400	<80	<80	<80	<80	<80	<80	<varies
GP-3-5	9/12/2017	5	<8	**384**	<8	<8	<8	**864**	**354**	<40	**288**	**204**	<8	**330**	**235**	**24**	<varies
GP-3-5 DUP	9/12/2017	5	<8	**385**	<8	<8	<8	**876**	**383**	<40	**299**	**210**	<8	**385**	<8	**22**	<varies
GP-3-15	9/12/2017	15	447	**42**	**114**	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-4-5	9/12/2017	5	<80	<80	<80	<80	<80	<80	<80	<400	<80	<80	<80	<80	<80	<80	<varies
GP-4-15	9/12/2017	15	<80	**1,000**	<80	<80	<80	<80	<80	<400	<80	<80	<80	<80	<80	<80	<varies
GP-5-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	**39**	<8	<varies
GP-5-15	9/12/2017	15	**7,900**	**27,300**	**8,000**	**26,700**	**11,500**	**25,000**	<800	**7,450**	<800	<800	**6,800**	<800	<800	<800	<varies
GP-5-15 DUP	9/12/2017	15	**7,350**	**25,500**	**8,050**	**25,100**	**10,900**	**21,300**	<800	<4,000	<800	<800	<800	<800	<800	<800	<varies
GP-6-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-6-15	9/12/2017	15	**2,280**	**1,850**	<8	**373**	<8	**130**	**187**	<40	**336**	**271**	<8	**321**	**120**	<8	**styrene: 35**
GP-7-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-7-15	9/12/2017	15	<160	**59,700**	<160	**66,100**	<160	**12,000**	**3,540**	**807**	**2,410**	**16,100**	**8,020**	**36,500**	**5,830**	<160	<varies
GP-8-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	**29**	<8	<varies
GP-8-15	9/12/2017	15	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-9-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-9-15	9/12/2017	15	<8	<8	**39**	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-10-5	9/12/2017	5	<8	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8	<8	<varies
GP-10-15	9/12/2017	15	**98**	**139**	**47**	**47**	<8	**51**	<8	<40	<8	<8	<8	**38**	<8	**27**	**dichlordiflouromethane: 38**

Notes: $\mu g/m^3$ - micrograms per cubic meter
NE - not established
NA-not analyzed
a - Analyzed following EPA Method 8260B
<8 - analyte not detected above stated laboratory reporting limit

VOCs - volatile organic compounds
bgs - below ground surface
TMB - trimethylbenzene

Table 4
Summary of Metals
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	Total Metals (mg/Kg)[a]																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Hollow Stem Auger Borings																			
HSA-1-10	9/6/2017	10	<2.0	<1.0	**63**	<1.0	<1.0	**130**	**2.0**	**29**	**160**	**4.3**	<1.0	**12**	**1.8**	<1.0	<1.0	**16**	**27**
HSA-1-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-1-20	9/6/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-1-25	9/6/2017	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-15	9/7/2017	15	<2.0	**7.5**	**180**	<1.0	<1.0	**39**	**7.2**	**160**	**750**	**53**	**1.7**	**60**	<1.0	<1.0	<1.0	**27**	**350**
HSA-2-20	9/7/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-5	9/6/2017	5	<2.0	**5.1**	**140**	<1.0	<1.0	**45**	**4.7**	**71**	**150**	**1.1**	**2.4**	**32**	<1.0	<1.0	<1.0	**39**	**91**
HSA-3-10	9/6/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-20	9/6/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-10	9/6/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-20	9/6/2017	20	**7.1**	<1.0	**190**	<1.0	<1.0	**440**	**3.0**	**250**	**3200**	**2.5**	<1.0	**16**	**1.2**	<1.0	<1.0	**15**	**91**
HSA-4-25	9/6/2017	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-20	9/7/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Geoprobe Borings																			
GP-1-5	9/8/2017	5	<2.0	**2.6**	**73**	<1.0	<1.0	**21**	**5.1**	**37**	**320**	**1.3**	**1.8**	**13**	<1.0	<1.0	<1.0	**24**	**84**
GP-1-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-1-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-1-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-10	9/8/2017	10	<2.0	**1.1**	**110**	<1.0	<1.0	**65**	**4.8**	**24**	**1,900**	**1.2**	**1.4**	**24**	<1.0	<1.0	<1.0	**32**	**120**
GP-2-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-10	9/8/2017	10	<2.0	**5.9**	**86**	<1.0	<1.0	**15**	**3.1**	**130**	**4,700**	**1.4**	**3.5**	**36**	**3.5**	<1.0	<1.0	**100**	**57**
GP-3-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 4
Summary of Metals
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	Total Metals (mg/Kg)[a]																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
GP-4-5	9/8/2017	5	<2.0	**1.4**	**98**	<1.0	<1.0	**30**	**6.3**	**36**	**200**	**1.5**	**1.7**	**18**	<1.0	<1.0	<1.0	**34**	**59**
GP-4-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-4-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-4-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-10	9/8/2017	10	**42**	<1.0	**1,100**	<1.0	<1.0	**2,400**	**5.6**	**1,400**	**1,200**	**1.6**	**5.7**	**46**	**4.7**	<1.0	<1.0	**39**	**550**
GP-5-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-5	9/8/2017	5	<2.0	**54**	**83**	<1.0	<1.0	**52**	**4.8**	**56**	**250**	**6.2**	**13**	**33**	<1.0	<1.0	<1.0	**72**	**510**
GP-7-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Catalyst Sample																			
Cat-1	9/14/2017	---	<76.5	<76.5	**229**	<25.5	<51	**67.2**	<25.5	<51	**155**	**0.913**	<25.5	<25.5	<76.5	<25.5	<76.5	**33.4**	**141**

Notes: mg/Kg - milligrams per kilogram
bgs - below ground surface
--- not analyzed
a - Analyzed following EPA Method 6010B; mercury by 7471A
<1.0 - analyte not detected above stated laboratory reporting limit

Table 5
Summary of PCBs and SVOCs
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	PCBs (ug/Kg)[a]									SVOCs (ug/Kg)[a]								
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Benzo(a)pyrene	Chrysene	Fluoranthene	Fluorene	2-Methylnaphthalene	Napthalene	Phenanthrene	Pyrene	Other SVOCs
Hollow Stem Auger Borings																				
HSA-1-5	9/6/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-1-10	9/6/2017	10	<16	<16	<16	<16	<16	<16	<16	<16	<16	<8,200	**71,000**	<8,200	<8,200	**71,000**	<8,200	**24,000**	**13,000**	**Benzo(a)anthracene: 16,000** **N-Nitrosodiphenylamine: 11,000**
HSA-1-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-1-20	9/6/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-1-25	9/6/2017	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-2-15	9/7/2017	15	<16	<16	<16	<16	<16	<16	<16	<16	<16	<8,200	<8,200	<8,200	<8,200	**35,000**	**9,200**	<8,200	<8,200	**N-Nitrosodiphenylamine: 9,100**
HSA-2-20	9/7/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-5	9/6/2017	5	<16	<16	<16	<16	<16	<16	<16	<16	<16	<8,200	<8,200	<8,200	<8,200	<8,200	<8,200	<8,200	<8,200	<Varies
HSA-3-10	9/6/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-3-20	9/6/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-10	9/6/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-15	9/6/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-4-20	9/6/2017	20	<16	<16	<16	<16	<16	<16	<16	<16	<16	<3,300	<3,300	<3,300	<3,300	**8,800**	**4,400**	**8,800**	<3,300	<Varies
HSA-4-25	9/6/2017	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-5-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-6-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-7-20	9/7/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-5	9/7/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-10	9/7/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HSA-8-15	9/7/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 5
Summary of PCBs and SVOCs
North Posse Parcel, Torrance, CA

Sample ID	Sample Date	Sample Depth (feet bgs)	PCBs (ug/Kg)[a]									SVOCs (ug/Kg)[b]								
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Benzo(a)pyrene	Chrysene	Fluoranthene	Fluorene	2-Methylnaphthalene	Napthalene	Phenanthrene	Pyrene	Other SVOCs
Sample ID	Sample Date	Sample Depth (feet bgs)	PCBs (ug/Kg)[a]									SVOCs (ug/Kg)[b]								
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Benzo(a)pyrene	Chrysene	Fluoranthene	Fluorene	2-Methylnaphthalene	Napthalene	Phenanthrene	Pyrene	Other SVOCs
Geoprobe Borings																				
GP-1-5	9/8/2017	5	<16	<16	<16	<16	<16	<16	<16	<16	<16	<6,600	<6,600	<6,600	<6,600	<6,600	<6,600	<6,600	<6,600	<Varies
GP-1-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-1-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-1-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-10	9/8/2017	10	<16	<16	<16	<16	<16	<16	<16	<16	<16	<3,300	**5,600**	<3,300	<3,300	**4,400**	<3,300	**13000**	**6,500**	**Benzo(a)anthracene: 4,500**
GP-2-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-2-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-10	9/8/2017	10	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16,000	**36,000**	<16,000	<16,000	**71,000**	**19,000**	**18,000**	<16,000	<Varies
GP-3-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-3-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-4-5	9/8/2017	5	<16	<16	<16	<16	<16	<16	<16	<16	<16	<3,300	<3,300	<3,300	**4,900**	<3,300	<3,300	**16,000**	<3,300	<Varies
GP-4-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-4-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-4-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-10	9/8/2017	10	<16	<16	<16	<16	<16	<16	<16	<16	<16	<33,000	<33,000	<33,000	<33,000	**79,000**	<33,000	<33,000	<33,000	<Varies
GP-5-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-5-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-6-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-5	9/8/2017	5	<16	<16	<16	<16	<16	<16	<16	<16	<16	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<Varies
GP-7-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-7-20	9/8/2017	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-8-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-9-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-5	9/8/2017	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-10	9/8/2017	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GP-10-15	9/8/2017	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes: a - Analyzed following EPA method 8082 ug/Kg - micrograms per kilogram b - Analyzed following EPA method 8270C bgs - below ground surface

--- not analyzed PCBs - polychlorinated biphynels

<1.0 - analyte not detected above stated laboratory reporting limit SVOCs - semi-volatile organic compounds

Table 6

Field Methane Measurements

Torrance Refinery - North Posse Parcel

Sample ID	Sample Date	Sample Depth (feet bgs)	Percent Methane[a]
GP-1-5	9/12/2017	5	0.1
GP-1-15	9/12/2017	15	1.0
GP-2-5	9/12/2017	5	0.0
GP-2-15	9/12/2017	15	1.4
GP-3-5	9/12/2017	5	0.1
GP-3-15	9/12/2017	15	0.0
GP-4-5	9/12/2017	5	0.2
GP-4-15	9/12/2017	15	0.4
GP-5-5	9/12/2017	5	0.2
GP-5-15	9/12/2017	15	23.0
GP-6-5	9/12/2017	5	0.0
GP-6-15	9/12/2017	15	0.2
GP-7-5	9/12/2017	5	0.0
GP-7-15	9/12/2017	15	3.1
GP-8-5	9/12/2017	5	0.0
GP-8-15	9/12/2017	15	0.0
GP-9-5	9/12/2017	5	0.0
GP-9-15	9/12/2017	15	0.0
GP-10-5	9/12/2017	5	0.0
GP-10-15	9/12/2017	15	0.0

Notes: a - measured using a GEM 2000 Landfill Meter

bgs - below ground surface