November 21, 2014
Project No. 00133805.000A

Ms. Josephine Gonzalez
Los Angeles Department of Water and Power
111 North Hope Street, Room 1044
Los Angeles, California 90012

Subject: Phase II Environmental Site Assessment Report
Former Figueroa Pump Station
5800 South Figueroa Street, Los Angeles, California
Agreement 47051-2, Site Investigation and Remediation Services

Dear Ms. Gonzalez:

Kleinfelder is pleased to present this Phase II Environmental Site Assessment (ESA) Report documenting soil assessment activities performed in the area of a previously removed fuel reservoir at the former Figueroa Pump Station (FPS), which is owned by the City of Los Angeles Department of Water and Power (LADWP). The former FPS is located at 5800 South Figueroa Street, Los Angeles, California (see Plate 1), and is referred to herein as the Site.

The assessment was completed pursuant to and in accordance with Kleinfelder's Proposal Number 117377/RIV13P0241, issued to LADWP on April 12, 2013. This report presents the methodology, analytical results, and conclusions pertaining to soil sampling activities performed at the Site between May 13 and 20, 2013.

The objective of the environmental scope of services discussed herein was to assess the potential presence, nature, and extent of hazardous substances in soil at the area of the removed fuel reservoir.

In summary, based on Kleinfelder's environmental contaminant evaluation for the soil samples collected for this assessment, soils at the seven sampled locations are not considered to pose a threat to human health and/or the environment.

The remainder of this report provides a summary of background information, further discusses the scope of the assessment activities, presents the analytical results, and summarizes our evaluation and conclusions.

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SITE DESCRIPTION AND BACKGROUND INFORMATION

The Site is an approximately 20,300-square foot, presently vacant lot bound by South Figueroa Street to the west, West 58th Street to the north, residences to the east, and a railroad easement and West Slauson Avenue to the south.

Based on information provided in a report of a Phase I ESA of the Site performed by Dames & Moore (Dames & Moore, 1999), LADWP operated a pump station at the Site from approximately 1908 to 1959. During that time, the Site contained two pumps, a boiler, a 175,000-gallon underground water reservoir, and an underground fuel reservoir with a capacity of 874 barrels. The fuel reservoir was supplied by a conveyance line with a fill port situated adjacent to the railroad located directly south of the Site. In 1959, the pump station was removed, the reservoir's supply piping was capped, and the reservoirs were backfilled with unspecified material.

A report of a Phase II ESA performed at the Site by Parsons, Inc. (Parsons, 2004) was reviewed by Kleinfelder and indicates 12 exploratory soil bores (SB-1 through SB-12) were drilled and sampled on August 5, 2003. A plan showing historical soil bore locations is presented as Plate 2. The bores were advanced to a depth of approximately 5 feet below ground surface (bgs), except for Bore SB-8, which was advanced to approximately 10 feet bgs at a location within the footprint of the filled-in fuel reservoir. Soil samples were collected at approximate depths of 1 foot, 3 feet, 5 feet, and 10 feet bgs. The samples were analyzed for moisture content; petroleum hydrocarbon compounds as gasoline and diesel fuel; motor oil; the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, ortho-xylene (o-xylene), and meta- and para-xylenes (m-, p-xylenes); and the metals arsenic, lead, and mercury. The historical analytical data are summarized in Tables 1 and 2. Based on the results, Parsons, Inc. concluded the only identified recognized environmental condition was lead-impacted soil (although the data indicate soil containing hydrocarbon concentrations above 1,000 milligrams per kilogram [mg/kg] was encountered at several of the bore locations, including Bores SB-3, SB-4, and SB-6 through SB-8). Concentrations of total lead detected in soil samples from four of the bores (SB-3, SB-4, SB-6, and SB-8) exceeded the then-applicable residential preliminary remediation goal (PRG) for lead of 150 mg/kg. However, none of the samples contained concentrations exceeding the lead industrial PRG of 750 mg/kg applicable at the time. In addition, the report indicated discolored soils and a potential part of the former fuel reservoir structure were encountered during the investigation, and it was concluded they could pose a concern during future Site construction work.

Other limited, unpublished records provided to Kleinfelder by LADWP indicate that on August 11, 2005, LADWP advanced and sampled 15 additional exploratory bores (B-13 through B-27) at the Site to approximate depths ranging from 3 feet to 10 feet bgs. These approximate bore locations are also shown on Plate 2. Bores B-13 through B-16 were advanced at step-out locations around Bore SB-3; Bores B-17 through B-20 were advanced at step-out locations around Bore SB-4; and Bores B-23 through B-26 were advanced at step-out locations around Bore SB-6. Bore B-21 was located within the

footprint of the former fuel reservoir; Bore B-22 was located within the footprint of the former pump station; and Bore B-27 was located within the footprint of the former water tank. Soil samples from the 15 bores were analyzed for total recoverable petroleum hydrocarbons (TRPH) and California Code of Regulations (CCR) Title 22 Metals (including soluble metals as warranted based on the results of the total metals analyses). In addition, selected soil samples were analyzed for hydrocarbons including diesel-range organics (DRO) having a carbon range of C_{10} through C_{28}, and total extractable petroleum hydrocarbons (TEPH), with a carbon range of C_9 through C_{36}. These historical soil analytical data are summarized in Tables 1 through 3. Total lead concentrations of shallow soil samples from several locations across the Site exceeded the residential soil PRG of 130 mg/kg that was applicable in 2005. Additionally, soluble lead concentrations of shallow soil samples from several locations exceeded the CCR Title 22 Soluble Threshold Limit Concentration for lead of 5 milligrams per liter. Certain soil samples collected from Bores B-13 through B-17, B-20, B-21, B-23, B-25, and B-27 contained TRPH concentrations above 1,000 mg/kg. Most of these soil samples were collected from depths of 5 feet bgs or shallower, with the exception of samples collected from depths of approximately 9 feet to 10 feet bgs in Bores B-13 (advanced in the area of the former water tank), B-20 (advanced approximately 40 feet west of the former fuel reservoir, toward the southwest corner of the Site), and B-21 (advanced at the location of the former fuel reservoir).

Remedial activities were subsequently performed at the Site by LADWP in June and July of 2009, at which time petroleum-impacted soil was removed by excavating within the approximate footprint of the former fuel reservoir. On June 23, 2009, during the remedial excavation work, LADWP collected a sample of a tar-like substance and submitted it for analysis of polychlorinated biphenyls (PCBs), CCR Title 22 Metals, and hydrocarbon-type identification. Kleinfelder understands this sample was a “grab” sample collected from the approximate elevation of the bottom of the fuel reservoir. The analytical results indicated the sample contained diesel-range hydrocarbons and did not contain detected PCBs. Metals results indicated 10 of the 17 CCR Title 22 Metals were detected, including antimony (15.7 J mg/kg, where the “J” qualifier indicates a trace concentration above the method detection limit [MDL] but below the reporting limit [RL]), barium (9.5 J mg/kg), beryllium (0.095 J mg/kg), total chromium (1.3 J mg/kg), copper (3.6 J mg/kg), lead (47.3 mg/kg), nickel (21.9 mg/kg), selenium (5.6 J mg/kg), vanadium (20.5 mg/kg), and zinc (99.0 mg/kg).

The excavation was continued to an approximate depth of 17 feet bgs, but then stopped before complete removal of petroleum-impacted soils due to slope stability concerns associated with the nearby railroad right-of-way adjoining to the south of the Site. On July 8, 2009, LADWP collected a soil sample that Kleinfelder understands came from the bottom of the excavation, below the vicinity of what would have been the western edge of the former fuel reservoir, and submitted the sample for analysis of TRPH, gasoline-range organics (GRO), DRO, motor oil, and full-scan VOCs. A summary of the analytical results is included in Table 1. The soil sample contained a TRPH concentration of 70,100 mg/kg, a GRO concentration of 29.2 mg/kg, and a DRO concentration of 24,000 mg/kg, but it did not contain detected motor oil or VOCs.

Following the soil removal activities, LADWP reportedly backfilled the excavation with slurry up to a depth of approximately 4 feet bgs.

SCOPE OF SERVICES

Kleinfelder's services included the collection and analysis of soil samples from seven hollow-stem auger bores (KLF-1 through KLF-7) at the locations shown on Plate 3. The field activities were performed between May 13 and 20, 2013. Each of the bore locations was selected by Kleinfelder in consultation with LADWP staff. The services provided by Kleinfelder included the activities discussed below.

Health and Safety Plan

Kleinfelder prepared a project Site-specific Health and Safety Plan, which addressed the health and safety of Kleinfelder's workers, provided contingency plans for potential emergencies, and provided guidelines for PPE and safety procedures that were used by Kleinfelder staff during the field activities. This plan was prepared based on the general knowledge of the chemical characteristics of materials reportedly present, and suspected to be present, at and adjoining to the Site.

Utility Clearance

Underground Service Alert of Southern California (also known as DigAlert), at telephone number 1-800-642-2444, provides a partial location service for major utility lines free of charge. California law requires providing at least 48 hours (2 business days) notification to DigAlert prior to performing intrusive activities, and Kleinfelder provided the required notification to DigAlert in accordance with State requirements to arrange for utility marking within pertinent public rights of way and utility easements. After marking the initially-proposed bore locations, on May 2, 2013, Kleinfelder notified DigAlert of the proposed soil sampling intrusive field activities, and DigAlert provided Ticket Numbers A31221193 (for Kleinfelder), A31221197 (for Martini Drilling Corporation), and A31221201 (for LADWP).

Because DigAlert may not mark underground utilities on private property, a geophysical services subcontractor (SubSurface Surveys & Associates, Inc. [SubSurface Surveys]) was contracted by Kleinfelder to locate and mark detectable utility lines at the proposed sampling locations. The purpose of the geophysical survey was to clear (insofar as possible), the proposed boreholes of drilling obstructions. On May 7, 2013 SubSurface Surveys used geophysical instruments to survey the areas of the proposed soil bores for underground obstructions. Visual inspection of the locations was also performed to assess for potential subsurface obstructions. Some bores had to be moved a few feet from their planned original locations to safely avoid identified utility lines, but most of the planned bore locations were not in conflict with utilities.

Soil Sampling

Kleinfelder's soil sampling activities at the Site were performed between May 13 and 20, 2013, during which soil bores were advanced and sampled by Martini Drilling Corporation of Huntington Beach, California. Kleinfelder's soil sampling activities at the Site were performed at the direction and under the oversight of a California-registered professional engineer.

The bores were advanced using a Central Mining Equipment (CME) 75™ drill rig equipped with 6-inch outside diameter (OD) hollow-stem augers. Bores KLF-1 through KLF-3 were advanced within the former fuel tank soil remedial excavation. These bores were advanced to total depths ranging from approximately 66.5 feet bgs (KLF-2 and KLF-3) to 91.5 bgs (KLF-1). Since the ground surface within the former remedial excavation is approximately 4 feet below the surface of the remaining part of the Site, corresponding total depths of these three bores beneath the main part of the Site are approximately 70.5 feet to 95.5 feet bgs. Bores KLF-4 through KLF-7 were each advanced outside the former remedial excavation to an approximate depth of 71.5 feet bgs. Soil samples were generally collected at 5-foot vertical intervals for analytical testing from each of these seven bores. Each bore was backfilled with cement grout containing bentonite at the completion of sampling.

Soil samples were collected using a 2-inch OD, standard penetration split-spoon sampler lined with 1.5-inch OD, stainless steel sample sleeves. At each specified depth of sampling for laboratory analysis, the ends of a 6-inch long sample sleeve were covered with Teflon™ sheeting followed by tight-fitting plastic caps. The soil samples were labeled with a unique identification number, date, and time, and placed in an ice-chilled cooler until delivered, under chain of custody, for analysis to the soil analytical laboratory.

Soil samples were screened in the field using a photo-ionization detector (PID) equipped with a 10.6-electron volt detector lamp and calibrated to a 100 parts per million by volume (ppmv) isobutylene standard. The PID had a detection limit of 0.1 ppmv. Some of the soil from each sample interval was placed in a new re-sealable plastic bag that was subsequently sealed. The bag remained sealed at ambient air temperature for approximately 10 minutes to allow potential VOC vapors to volatize into the bag headspace. Then the probe tip of the PID was placed into the bag by unsealing a small length of the seal, and the total VOC vapor reading was recorded on the field bore log.

Sub-samples intended for laboratory VOC analysis were collected and preserved in the field using EnCore™ samplers in accordance with United States Environmental Protection Agency (US EPA) Method 5035.

Kleinfelder field personnel logged the bores and classified the soils in general accordance with the Unified Soils Classification System (USCS), using visual-manual procedures as described in ASTM International Standard D 2488.

In addition, during each day of soil sampling, field quality control (QC) samples, consisting of one soil sampling equipment rinsate, one trip blank, and one field blank per day, were collected. Equipment rinsate samples were labeled "QCEB," trip blank samples were labeled "QCTB," and field blank samples were labeled "QCFB."

Equipment Decontamination Procedures

Reusable auger drilling and soil sampling equipment was cleaned prior to each use to reduce the potential for cross contamination. Core sample barrels, rods, and other downhole implements used during drilling were also cleaned prior to each use. Sampling equipment was cleaned prior to collecting each soil sample as follows:

- The equipment was first washed in a non-phosphate detergent (Liquinox®) and tap water solution, using a brush to dislodge soil, dirt, and other encrusted matter.

- Following the detergent wash, the sampling equipment was rinsed in tap water, followed by a final rinse using distilled water.

Investigation-Derived Waste

Investigation-derived waste (IDW), consisting of drill cuttings and rinsate water generated by the drilling and sampling activities, was temporarily stored on-Site in Department of Transportation (DOT)-approved, 55-gallon steel drums, pending profiling and off Site disposal. For waste profiling purposes, one composite soil sample (designated "Soil Drum Profile") was collected on May 20, 2013 from the soil drums.

On July 18, 2013, 16 drums containing soil cuttings, along with 2 drums containing rinsate water from drilling operations, were transported off Site for disposal at a State-licensed disposal facility. The soil drums were sent to Soil Safe, located in Adelanto, California, and the rinsate water was sent to DeMenno Kerdoon, located in Compton, California, for treatment and recycling. Copies of the waste disposal manifests are attached.

Laboratory Analyses

Soil samples collected during sampling activities were submitted to LADWP's Environmental Laboratory, which is a California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP)-accredited laboratory located in Los Angeles, California.

In general, the soil samples were analyzed for GRO using US EPA Method 8015B; TEPH, DRO, and motor oil using modified US EPA Method 8015 (8015M); TRPH using US EPA Method 418.1; and VOCs using US EPA Methods 5035/8260B.

The trip blank samples and one field blank sample were analyzed for VOCs only, using US EPA Method 8260B. The remaining field blank sample and the equipment blank samples were analyzed for VOCs using US EPA Method 8260B; GRO using US EPA Method 8015B; oil and grease using US EPA Method 1664B (in lieu of US EPA Method 418.1); and TEPH, DRO and motor oil using US EPA Method 8015M.

The soil IDW composite sample was analyzed for GRO using US EPA Method 8015B; TEPH, DRO, and motor oil using US EPA Method 8015M; VOCs using US EPA Method 8260B; PCBs using US EPA Method 8082; and CCR Title 22 Metals using US EPA Methods 6010B and 7471.

FIELD OBSERVATIONS AND ANALYTICAL RESULTS

Information from Kleinfelder's field bore logs was entered using the computer program gINT™ to prepare the attached bore logs. In general, poorly graded sand containing varying amounts of silt was encountered in the upper 65 feet explored by Kleinfelder's bores. Consistent with the discussion in the reviewed historical reports, Bores KLF-1 through KLF-3 encountered slurry fill in the uppermost 10 feet penetrated by each bore. A clayey sand lens, approximately 5 feet thick, was also encountered in Bore KLF-1 at approximately 35 feet below grade. Finer-grained soil lenses (approximately 5 feet thick) consisting of a sandy lean clay and poorly graded sand with clay were encountered in Bores KLF-2, KLF-3, and KLF-4 at approximately 65 feet below grade. Coarser-grained soils and increased density occurred beginning at 70 feet below grade in Bore KLF-1. Kleinfelder has prepared cross sections illustrating the conditions encountered by Kleinfelder's soil bores. The cross-section locations are shown on Plate 4, and the cross-sections are provided on Plates 5 through 7.

As previously noted, VOC screening of the soil samples was performed in the field, and results are presented on the attached bore logs in the column labeled "PID/FID (ppm)." Most of the PID readings were below the 0.1-ppmv instrument detection limit, with a few samples yielding PID readings of 2.0 ppmv or lower. The exceptions were for shallow samples collected from Bores KLF-1 and KLF-2, from which samples from 10 feet bgs (near the interface of slurry fill and native soil within the former fuel reservoir excavation) yielded PID readings of 275 ppmv and 110 ppmv, respectively, and the Bore KLF-1 sample from 15 feet bgs yielded a reading of 850 ppmv.

The GRO, TRPH, TEPH, DRO, motor oil, and VOC analytical results for the soil samples collected during Kleinfelder's Phase II ESA are summarized in Table 4. TEPH concentrations in soil are also shown on the cross-sections (Plates 5 through 7). The laboratory analytical reports from the LADWP's Environmental Laboratory are attached. In summary, the results indicate the following:

- As indicated in Table 4, 97 soil samples were analyzed for GRO, which was not detected at concentrations at or above the laboratory's MDLs.

- As Table 4 also shows, 97 soil samples were analyzed for TRPH, which was detected at or above its MDLs in 38 samples, at concentrations ranging from 21 mg/kg to 13,093 mg/kg.

- As Table 4 also shows, 97 soil samples were analyzed for TEPH, DRO, and motor oil. TEPH was detected at or above its MDLs in 22 samples, at concentrations ranging from 4.3 J mg/kg to 5,540 mg/kg. DRO was detected at or above its MDLs in four samples, at concentrations ranging from 125 J mg/kg to 4,520 mg/kg. Motor oil was detected at or above its MDLs in five samples, at concentrations ranging from 217 mg/kg to 1,180 mg/kg.

- As Table 4 also indicates, 97 soil samples were analyzed for VOCs, which were not detected in 95 of the samples at concentrations at or above the laboratory's MDLs. Twelve VOCs were detected above their respective MDLs in the remaining two soil samples (KLF-1-10 and KLF-1-15). Butylbenzene, sec-butylbenzene, 4-chlorotoluene, ethylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, propylbenzene 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, meta- and para-xylenes (m&p-xylene), and o-xylene were detected in either one or both Samples KLF-1-10 and KLF-1-15. The detected concentrations of VOCs ranged from 38 J micrograms per kilogram (µg/kg) of 4-chlorotoluene in Sample KLF-1-10 to 7,680 µg/kg of 1,2,4-trimethylbenzene in Sample KLF-1-15. The remaining analyzed VOCs were not detected in these two samples at concentrations at or above the laboratory's MDLs.

The analytical results for the QC samples collected during Kleinfelder's Phase II ESA are summarized in Table 5, which includes GRO, oil and grease, TEPH, DRO, motor oil, and VOC results. Analytical results for each QC sample are below the laboratory's MDLs, indicating that there was no detected cross contamination from sample collection and handling procedures.

DISCUSSION AND CONCLUSIONS

This assessment was performed to assess the potential presence, nature, and extent of petroleum hydrocarbons and associated VOCs in soil at the area of the removed fuel reservoir. To evaluate detected TPH concentrations, Kleinfelder compared the GRO, DRO, and motor oil concentrations of each soil sample to respective screening values of 500 mg/kg, 1,000 mg/kg, and 10,000 mg/kg. These values represent the Maximum Soil Screening Level (MSSL) values established by the California Regional Water Quality Control Board, Los Angeles Region (LARWQCB) for these respective carbon ranges and a depth to groundwater beneath a given sample that is in the range of 20 feet to 150 feet (LARWQCB, 2004). Because the California Environmental Protection Agency (Cal/EPA) has published no VOC California Human Health Screening Level (CHHSL) values for soil (Cal/EPA, 2005), the detected VOC concentrations were compared with the May 2014 Regional Screening Level (RSL) values for soil established by the US EPA's Region IX (US EPA, 2014). These comparisons indicated the following:

- The detected concentrations of DRO exceed its MSSL of 1,000 mg/kg in two soil samples, KLF-1-10 (3,240 mg/kg) and KLF-2-10 (4,520 mg/kg). These two samples were collected within the former fuel reservoir remedial excavation from approximately 15 feet below Site grade. The DRO concentration of each deeper soil sample analyzed from these bores was below the MSSL.

- The detected concentrations of motor oil were below its MSSL of 10,000 mg/kg.

- The detected concentrations of butylbenzene, 4-chlorotoluene, ethylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, propylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene in Sample KLF-1-10 were below their respective residential and industrial RSL values.
- The detected concentrations of butylbenzene, sec-butylbenzene, ethylbenzene, isopropylbenzene, p-isopropyltoluene, propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, m&p-xylene, and o-xylene in Sample KLF-1-15 were below their respective residential and industrial RSL values.
- In Sample KLF-1-15, the detected concentration of naphthalene (5,485 µg/kg) exceeded its residential RSL of 3,800 µg/kg. This sample was collected within the former fuel reservoir remedial excavation from approximately 15 feet below Site grade. In the deeper soil samples analyzed from this bore, naphthalene was not detected at concentrations at or above its MDL.

Based on the presence of widespread near-surface soil impacted by petroleum hydrocarbons and metals (principally lead) at various Site locations and residual petroleum hydrocarbon impact below the limits of the former fuel reservoir excavation, Kleinfelder recommends LADWP consider preparation of a removal action work plan for the excavation and removal of hydrocarbon- and metal-impacted soil to reduce long term environmental liability associated with the Site.

LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services were provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the points evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

This report may be used only by LADWP and the registered design professional in responsible charge and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than 2 years from the date of the report.

The work performed was based on project information provided by LADWP. If LADWP does not retain Kleinfelder to review any plans and specifications, including any revisions or modifications to the plans and specifications, Kleinfelder assumes no responsibility for the suitability of our recommendations. In addition, if there are any changes in the field to the plans and specifications, LADWP must obtain written approval from Kleinfelder's engineer that such changes do not affect our recommendations. Failure to do so will vitiate Kleinfelder's recommendations.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions comprise a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that LADWP has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the Site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, generator, or person who arranges for disposal, transport, storage, or treatment of hazardous materials within the meaning of any governmental statute, regulation, or order. LADWP is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment, or disposal of any hazardous materials observed at the Site, either before or during performance of Kleinfelder's services. LADWP is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

CLOSING REMARKS

We thank you for the opportunity to provide Kleinfelder's professional environmental services and look forward to future work with you on other projects. Please feel free to call George Johnson at (951) 801-3681 should you have questions.

Sincerely,

KLEINFELDER WEST, INC.

Travis Meier
Staff Professional II

George Johnson, PE
Senior Engineer

Attachments:

References
Plates
- Plate 1 – Site Location Map
- Plate 2 – Site Plan Showing Historical Soil Bore Locations
- Plate 3 – Site Plan Showing 2013 Soil Bore Locations
- Plate 4 – Site Plan Showing Cross-Section Locations
- Plate 5 – Cross-Section A-A'
- Plate 6 – Cross-Section B-B'
- Plate 7 – Cross-Section C-C'

Tables
- Table 1 – Historical Soil Analytical Data – Organic Compounds
- Table 2 – Historical Soil Analytical Data – TTLC Metals
- Table 3 – Historical Soil Analytical Data – STLC and TCLP Metals
- Table 4 – 2013 Soil Analytical Data
- Table 5 – 2013 Quality Control Sample Analytical Data

Bore Logs
Waste Disposal Manifests
Analytical Laboratory Reports

cc: Jeffrey Walker, PE, Kleinfelder

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REFERENCES

REFERENCES

California Environmental Protection Agency (Cal/EPA), 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties*. January.

California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), 2004. *UST Closure Criteria (Draft) April 2004, rev Sept. 2006*. http://www.waterboards.ca.gov/rwqcb4/water_issues/programs/ust/closure_criteria/closurecriteria.pdf

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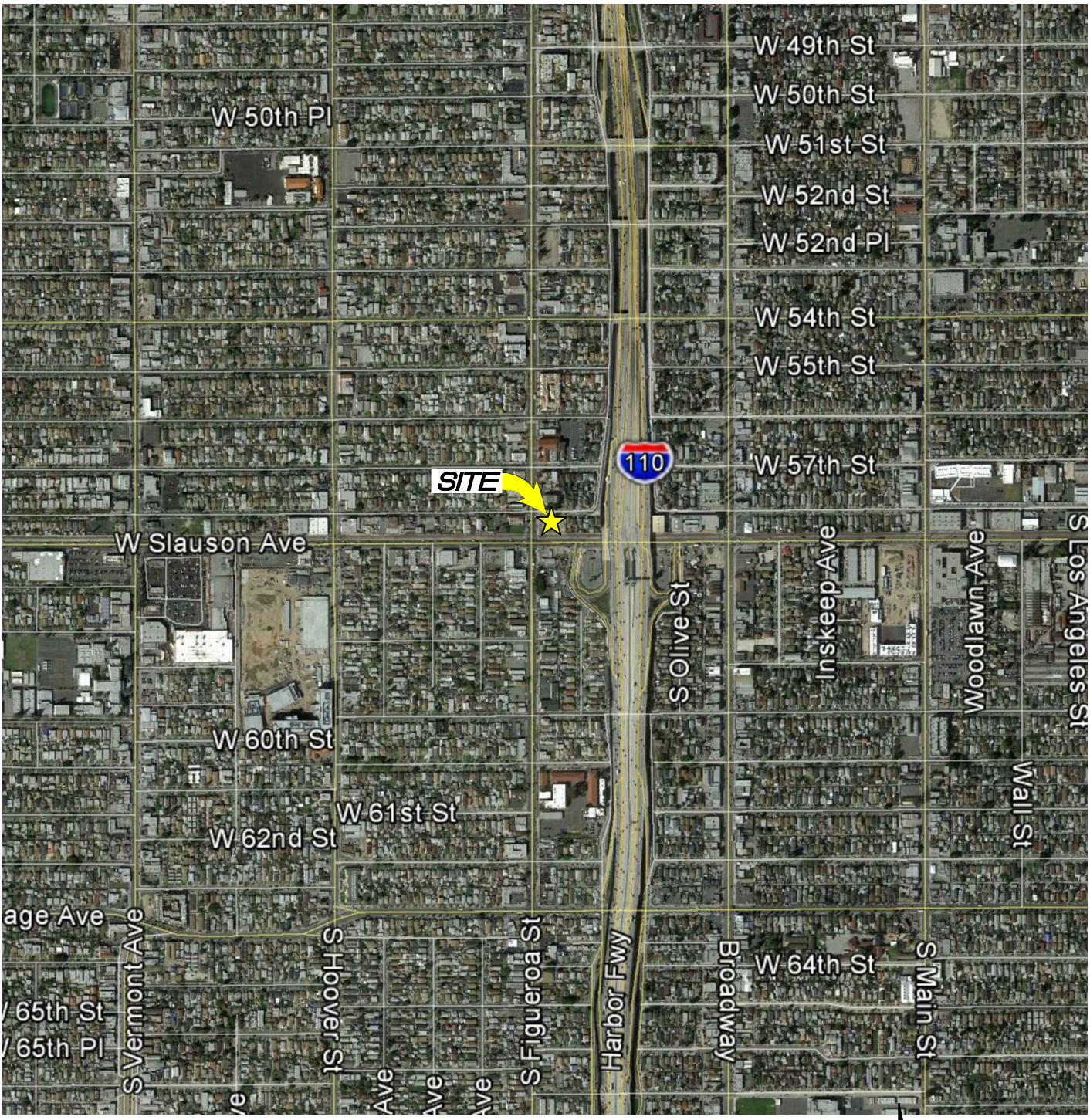
PLATES



SOURCE: GOOGLE EARTH PRO 2013, DATED 3/07/11.

N

1,000 500 0 1,000

APPROXIMATE SCALE (feet)

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PROJECT NO.	133805
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CHECKED BY:	GJ
FILE NAME:	133805p1_SLM.dwg

SITE LOCATION MAP

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE 1

ATTACHED IMAGES: Images: Aerial_Image_Figueroa_5104_3-7-11.jpg
ATTACHED XREFS:
LONG BEACH, CA

CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: 1

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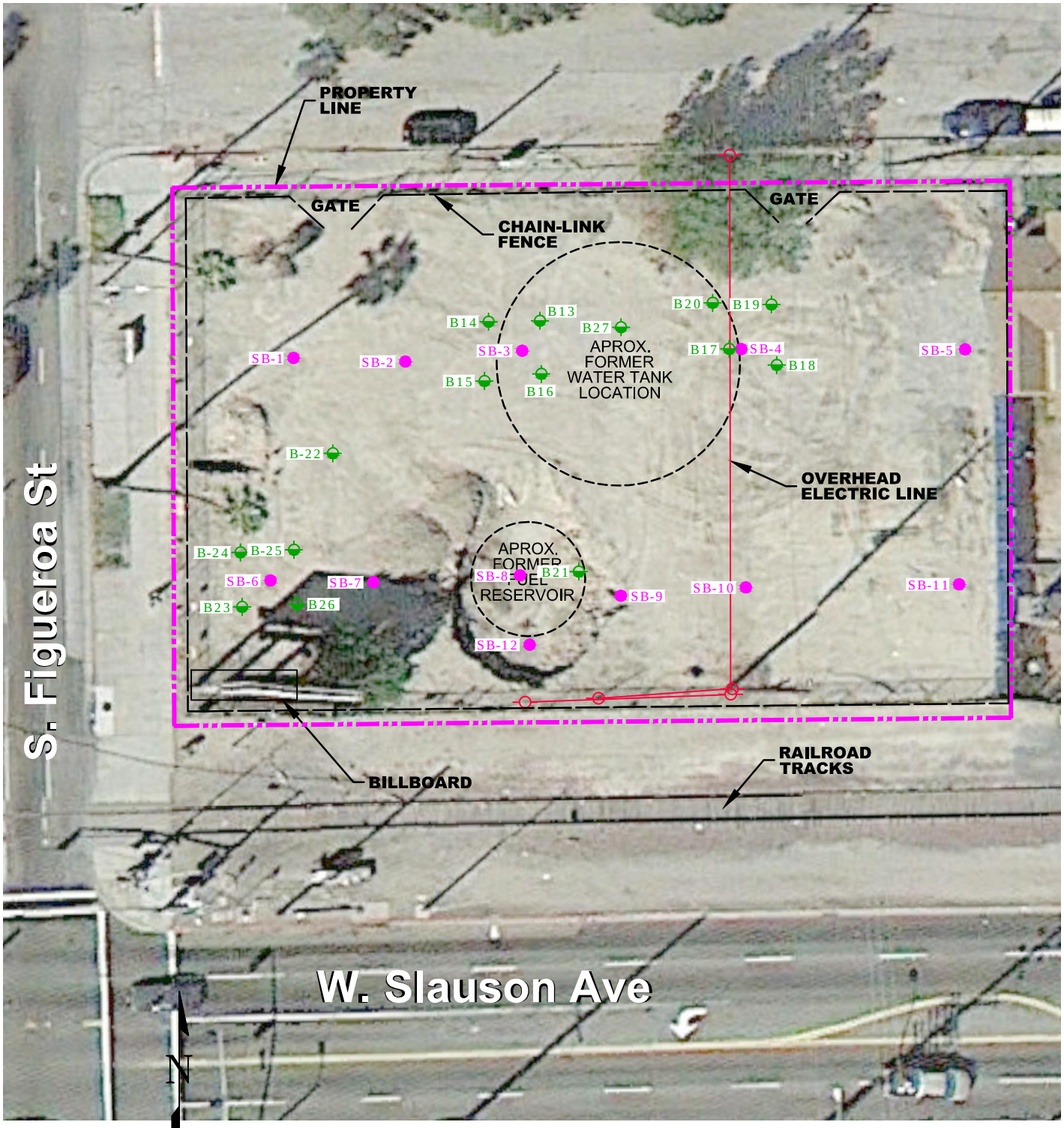

EXPLANATION

SB-12 ● APPROXIMATE LOCATION OF SOIL BORE (PARSONS, 2004)

B27 ⊕ APPROXIMATE LOCATION OF SOIL BORE (LADWP, 2005)

SOURCE: GOOGLE EARTH PRO 2013, DATED 3/07/11.

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SITE PLAN SHOWING HISTORICAL SOIL BORE LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE 2

ATTACHED IMAGES: Images: Aerial_Image_Figueroa_201_3-7-11.jpg
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LONG BEACH, CA
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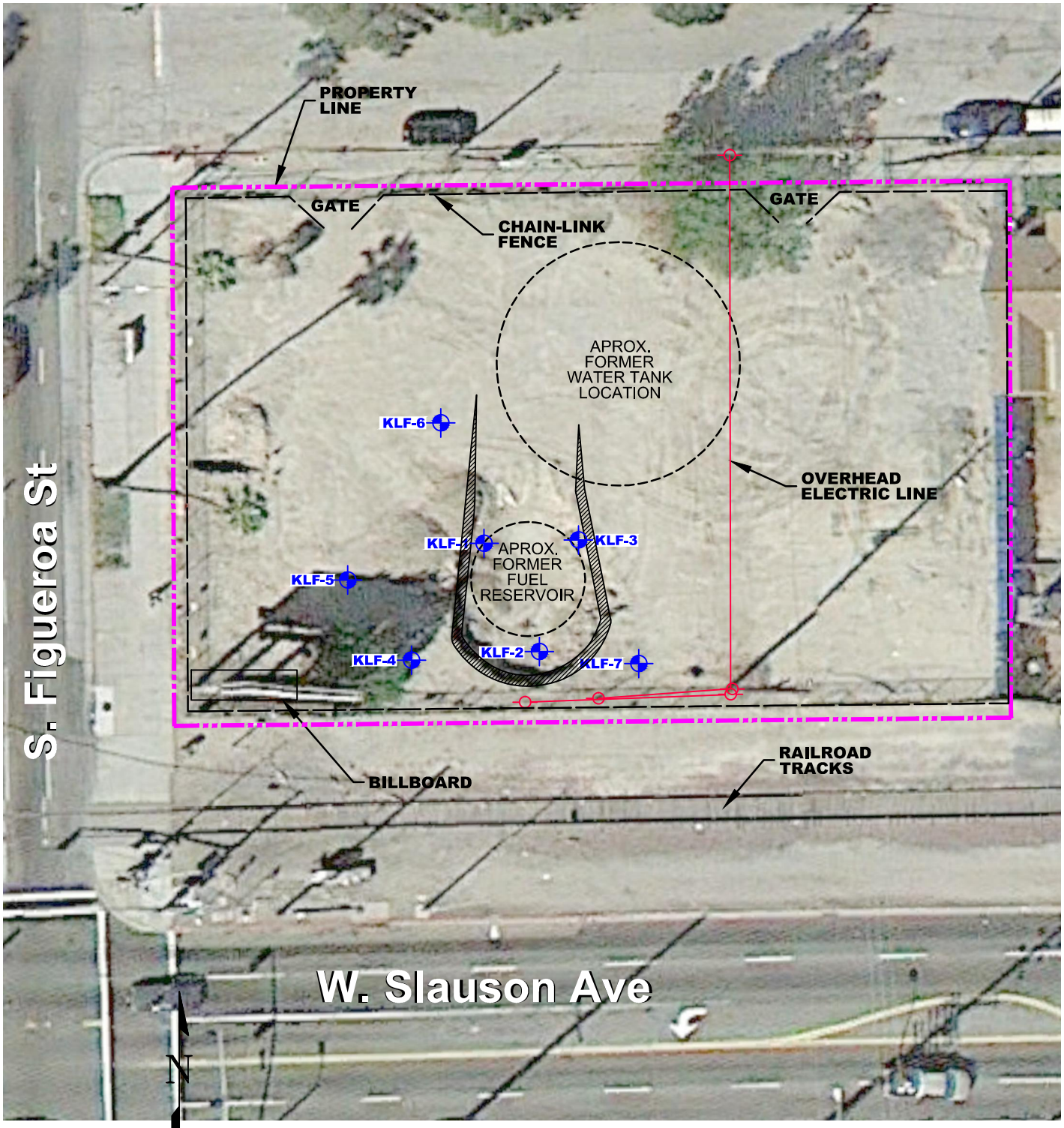

EXPLANATION

KLF-7 SOIL BORE LOCATION - KLEINFELDER 2013

SOURCE: GOOGLE EARTH PRO 2013, DATED 3/07/11.

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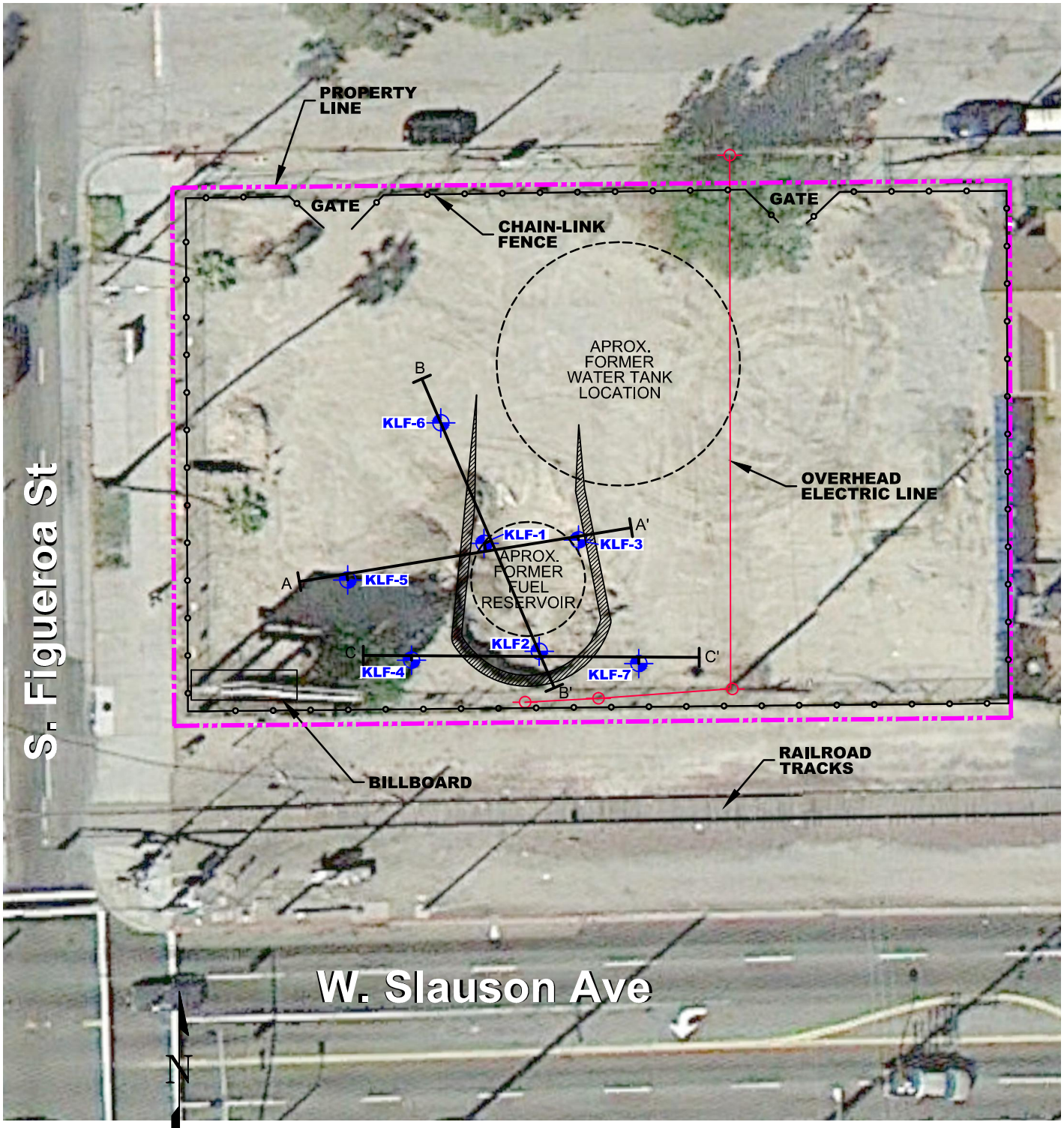
PROJECT NO.	133805
DRAWN:	11/2014
DRAWN BY:	MRG
CHECKED BY:	GJ
FILE NAME:	133805p3_SP-SSL.dwg

SITE PLAN SHOWING 2013 SOIL BORE LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE 3

ATTACHED IMAGES: Images: Aerial_Image_Figueroa_201_3-7-11.jpg
ATTACHED XREFS:
LONG BEACH, CA
CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: 3
PLOTTED: 19 Nov 2014, 10:40am, mgriffin



EXPLANATION

KLF-7 SOIL BORE LOCATION - KLEINFELDER 2013

C C' CROSS-SECTION LOCATION

SOURCE: GOOGLE EARTH PRO 2013, DATED 3/07/11.

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PROJECT NO.	133805
DRAWN:	11/2014
DRAWN BY:	MRG
CHECKED BY:	GJ
FILE NAME:	133805p4_CS-LM.dwg

SITE PLAN SHOWING CROSS-SECTION LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE 4

ATTACHED IMAGES: Images: Aerial_Image_Figueroa_201_3-7-11.jpg
ATTACHED XREFS:
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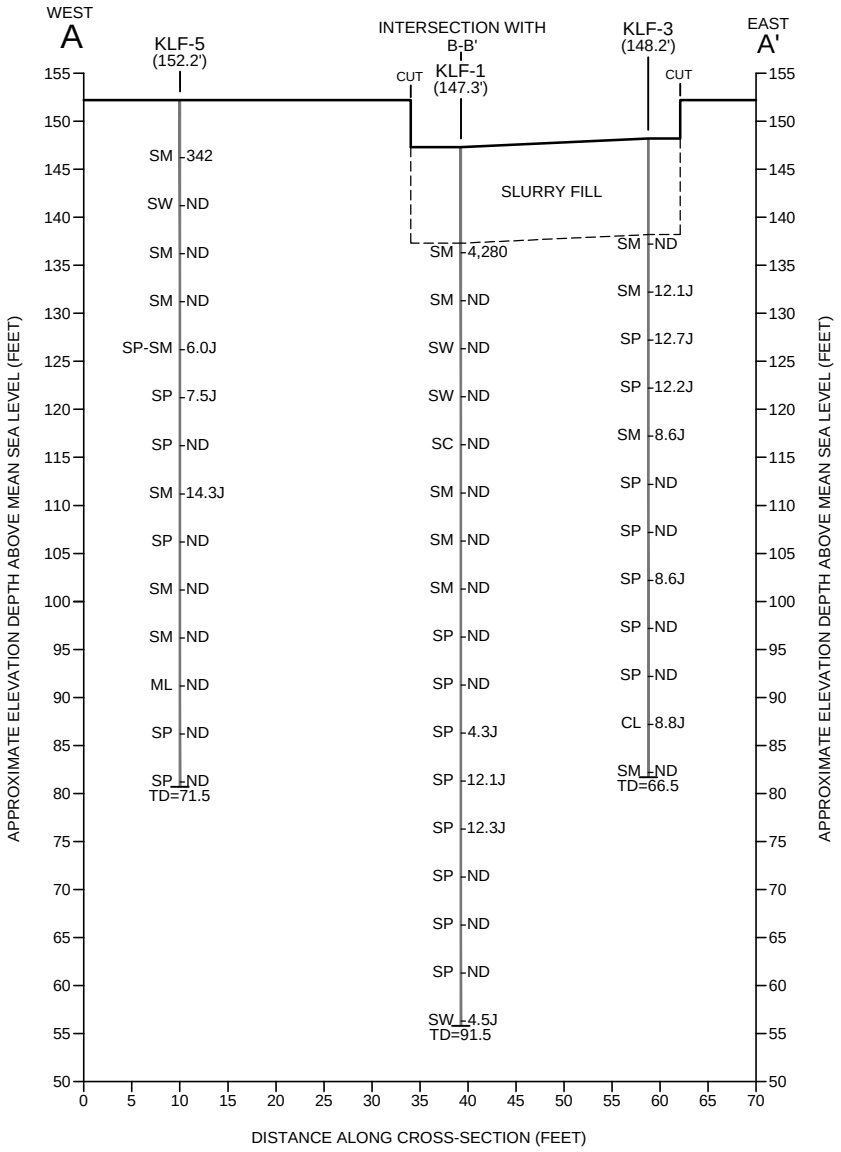
CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: 4
PLOTTED: 14 Nov 2014, 7:45am, mgriffin



LEGEND

SM	SILTY SAND, SAND-GRAVEL-CLAY MIXTURES
SP-SM	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE FINES
SP	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SW	WELL-GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SC	CLAYEY SAND, SAND-GRAVEL-CLAY MIXTURES
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAY, SILTY CLAY, LEAN CLAY
ML	INORGANIC SILT AND VERY FINE SAND, SILTY OR CLAYEY FINE SAND, SILT WITH SLIGHT PLASTICITY

KLF-5 (152.2')	BORE NUMBER GROUND ELEVATION (FEET)
ND	BORE WITH TEPH CONCENTRATION
TEPH	TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS
mg/kg	MILLIGRAMS PER KILOGRAM
ND	NOT DETECTED ABOVE THE METHOD DETECTION LIMIT

20 10 0 20
APPROXIMATE SCALE (feet)

CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: pl5_A-A' PLOTTED: 14 Nov 2014, 7:47am, mgriffin

ATTACHED IMAGES:
ATTACHED XREFS:
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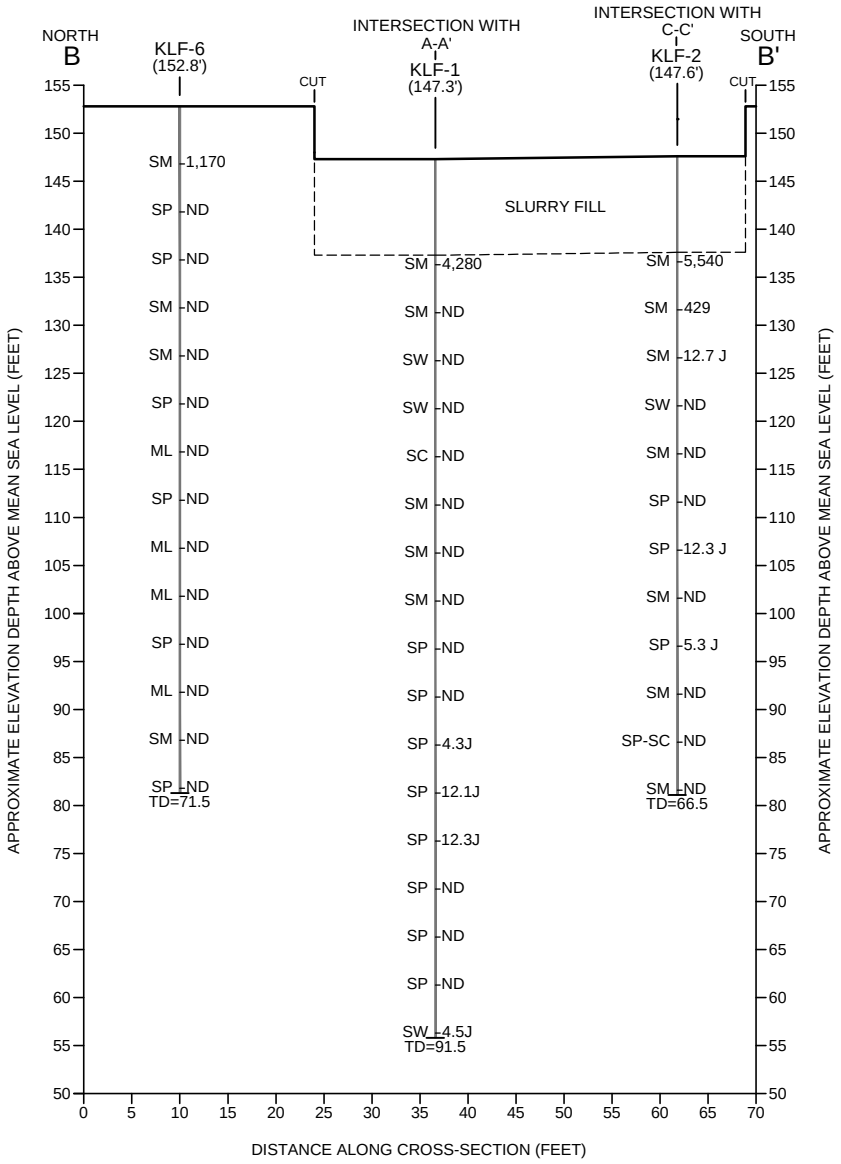
PROJECT NO.	133805
DRAWN:	11/2014
DRAWN BY:	MRG
CHECKED BY:	GJ
FILE NAME:	133805p5_CS-A,B,C.dwg

CROSS-SECTION A-A'

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE
5



LEGEND

SM	SILTY SAND, SAND-GRAVEL-CLAY MIXTURES
SP-SC	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE FINES
SP	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SW	WELL-GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SC	CLAYEY SAND, SAND-GRAVEL-CLAY MIXTURES
ML	INORGANIC SILT AND VERY FINE SAND, SILTY OR CLAYEY FINE SAND, SILT WITH SLIGHT PLASTICITY

KLF-6 (152.8')	BORE NUMBER GROUND ELEVATION (FEET)
ND	BORE WITH TEPH CONCENTRATION
TEPH	TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS
mg/kg	MILLIGRAMS PER KILOGRAM
ND	NOT DETECTED ABOVE THE METHOD DETECTION LIMIT

20 10 0 20
APPROXIMATE SCALE (feet)

CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: pl6_B'-B PLOTTED: 14 Nov 2014, 7:48am, mgriffin

ATTACHED IMAGES:
ATTACHED XREFS:
LONG BEACH, CA

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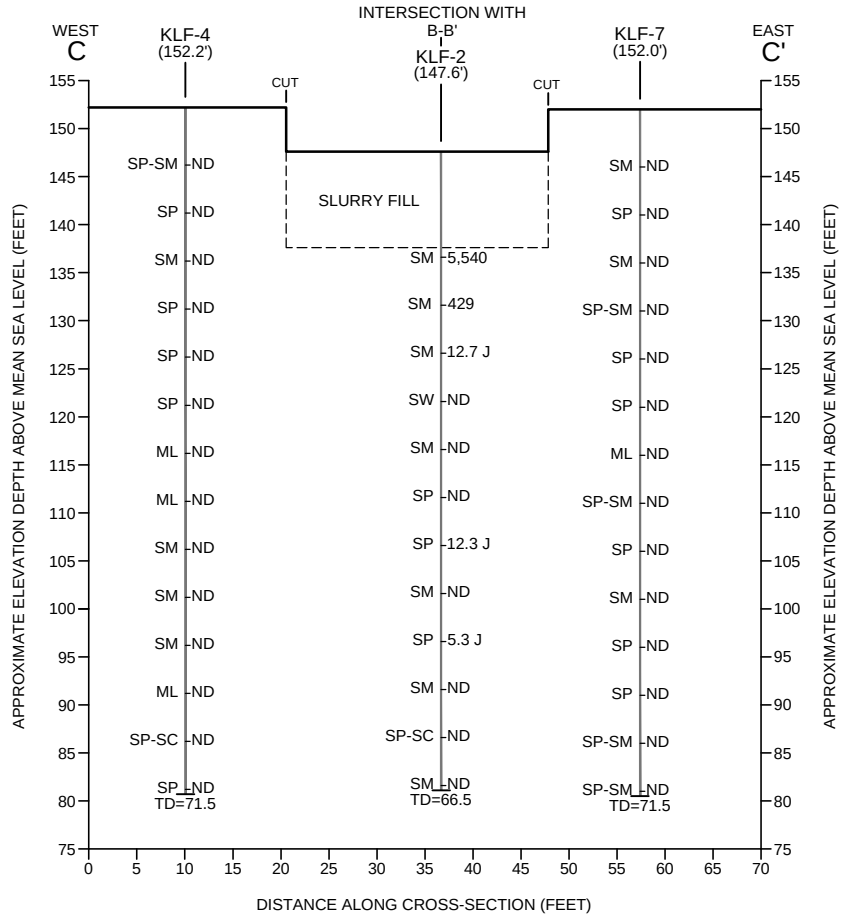
PROJECT NO.	133805
DRAWN:	11/2014
DRAWN BY:	MRG
CHECKED BY:	GJ
FILE NAME:	133805p5_CS-A,B,C.dwg

CROSS-SECTION B'-B

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE
6



LEGEND

SM	SILTY SAND, SAND-GRAVEL-CLAY MIXTURES
SP-SM	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE FINES
SP	POORLY GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SW	WELL-GRADED SAND, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
SP-SC	POORLY GRADED SAND, SAND-GRAVEL MIXTURE WITH LITTLE CLAY FINES
ML	INORGANIC SILT AND VERY FINE SAND, SILTY OR CLAYEY FINE SAND, SILT WITH SLIGHT PLASTICITY

KLF-4 (152.2')	BORE NUMBER GROUND ELEVATION (FEET)
| ND	BORE WITH TEPH CONCENTRATION
TEPH	TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS
mg/kg	MILLIGRAMS PER KILOGRAM
ND	NOT DETECTED ABOVE THE METHOD DETECTION LIMIT

20 10 0 20
APPROXIMATE SCALE (feet)

CAD FILE: L:\CADD\2014\133805\FigueraPumpSta_11-2014\ LAYOUT: pl7_C-C' PLOTTED: 14 Nov 2014, 7:48am, mgriffin

ATTACHED IMAGES:
ATTACHED XREFS:
LONG BEACH, CA

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PROJECT NO.	133805
DRAWN:	11/2014
DRAWN BY:	MRG
CHECKED BY:	GJ
FILE NAME:	133805p5_CS-A,B,C.dwg

CROSS-SECTION C-C'

PHASE II ENVIRONMENTAL SITE ASSESSMENT
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

PLATE
7

TABLES

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA - ORGANIC COMPOUNDS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	TRPH	TEPH (C9 - C36)	GRO	DRO (C10 - C28)	Motor Oil (C22 - C36)	TPH-g (C4 - C12)	DRO (C12 - C22)	Motor Oil (C23 - C32)	Volatile Organic Compounds				
												Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
				418.1	8015M	8015B	8015M	8015M	8015M	8015M	8015M	8260	8260	8260	8260	8260
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
SB-1	SB-1-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	80J	850	-	-	-	-	-
	SB-1-3	8/5/2003	3.0	-	-	-	-	-	0.03J	ND(12)	ND(12)	ND(7.3)	2J	1J	3J	1J
	SB-1-5	8/5/2003	5.0	-	-	-	-	-	0.02J	30	120	0.5J	0.3J	0.6J	1J	0.6J
SB-2	SB-2-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	**230**	760	-	-	-	-	-
	SB-2-3	8/5/2003	3.0	-	-	-	-	-	0.03J	51J	600	0.4J	2J	0.4J	6J	2J
	SB-2-5	8/5/2003	5.0	-	-	-	-	-	ND(1.1)	ND(11)	23	ND(5.3)	0.6J	0.4J	0.8J	ND(5.3)
SB-3	SB-3-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	53	450	-	-	-	-	-
	SB-3-3	8/5/2003	3.0	-	-	-	-	-	0.02J	4J	82	0.7J	0.8J	0.4J	1J	0.6J
	SB-3-5	8/5/2003	5.0	-	-	-	-	-	0.02J	**780**	2,900	ND(6.6)	1J	0.5J	1J	0.5J
SB-4	SB-4-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	31J	300	-	-	-	-	-
	SB-4-3	8/5/2003	3.0	-	-	-	-	-	0.02J	**170**	1,000	ND(6.7)	1J	0.5J	1J	0.5J
	SB-4-5	8/5/2003	5.0	-	-	-	-	-	ND(1.0)	**240**	2,500	ND(5.1)	0.8J	0.4J	1J	0.4J
SB-5	SB-5-0.5	8/5/2003	0.5	-	-	-	-	-	ND(1.1)	ND(11)	ND(11)	-	-	-	-	-
	SB-5-3	8/5/2003	3.0	-	-	-	-	-	ND(1.3)	ND(11)	ND(11)	ND(6.3)	0.8J	0.5J	1J	0.4J
	SB-5-5	8/5/2003	5.0	-	-	-	-	-	0.02J	ND(11)	ND(11)	ND(6.0)	1J	0.4J	3J	2J
	SB-55-5	8/5/2003	5.0	-	-	-	-	-	ND(1.1)	ND(11)	ND(11)	ND(5.4)	0.7J	0.3J	1J	0.4J
SB-6	SB-6-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	13J	590	-	-	-	-	-
	SB-66-0.5	8/5/2003	0.5	-	-	-	-	-	ND(1.0)	65J	1,500	-	-	-	-	-
	SB-6-3	8/5/2003	3.0	-	-	-	-	-	0.02J	ND(11)	9J	0.5J	1J	0.6J	1J	0.6J
	SB-6-5	8/5/2003	5.0	-	-	-	-	-	ND(1.0)	ND(11)	ND(11)	ND(5.1)	1J	0.6J	1J	0.4J
SB-7	SB-7-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	**830**	1,900	-	-	-	-	-
	SB-7-3	8/5/2003	3.0	-	-	-	-	-	ND(1.1)	11	74	ND(5.7)	1J	0.5J	1J	0.5J
	SB-7-5	8/5/2003	5.0	-	-	-	-	-	ND(1.3)	2J	ND(13)	ND(6.3)	1J	0.4J	1J	0.7J
SB-8	SB-8-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	7J	67	-	-	-	-	-
	SB-8-3	8/5/2003	3.0	-	-	-	-	-	0.05J	22J	220	7.0	2J	0.6J	4J	2J
	SB-8-5	8/5/2003	5.0	-	-	-	-	-	0.1J	28J	180	5J	2J	1J	4J	2J
	SB-8-10	8/5/2003	10.0	-	-	-	-	-	0.04J	**560**	1,300	0.5J	2J	0.8J	2J	1J
SB-9	SB-9-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	ND(11)	ND(11)	-	-	-	-	-
	SB-99-0.5	8/5/2003	0.5	-	-	-	-	-	ND(1.1)	25J	200	-	-	-	-	-
	SB-9-3	8/5/2003	3.0	-	-	-	-	-	ND(1.0)	ND(11)	6J	ND(5.2)	0.6J	0.4J	0.9J	ND(5.2)
	SB-9-5	8/5/2003	5.0	-	-	-	-	-	ND(1.0)	ND(11)	4J	ND(5.2)	0.7J	0.3J	0.9J	0.4J
SB-10	SB-10-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	23J	230	-	-	-	-	-
	SB-100-0.5	8/5/2003	0.5	-	-	-	-	-	ND(1.1)	28J	600	-	-	-	-	-
	SB-10-3	8/5/2003	3.0	-	-	-	-	-	ND(1.2)	ND(11)	ND(11)	ND(5.8)	1J	0.4J	1J	0.5J
	SB-10-5	8/5/2003	5.0	-	-	-	-	-	ND(1.2)	ND(11)	ND(11)	ND(6.0)	1J	0.4J	1J	0.4J
SB-11	SB-11-0.5	8/5/2003	0.5	-	-	-	-	-	0.02J	44	190	-	-	-	-	-
	SB-11-3	8/5/2003	3.0	-	-	-	-	-	ND(1.2)	ND(11)	ND(11)	ND(6.1)	1J	0.6J	1J	0.5J
	SB-11-5	8/5/2003	5.0	-	-	-	-	-	ND(1.1)	ND(11)	ND(11)	ND(5.3)	0.5J	0.3J	0.8J	0.4J
SB-12	SB-12-0.5	8/5/2003	0.5	-	-	-	-	-	ND(1.1)	64	920	-	-	-	-	-
	SB-12-4	8/5/2003	4.0	-	-	-	-	-	0.02J	**200J**	1,500	0.4J	1J	0.6J	2J	0.8J
	SB-12-5	8/5/2003	5.0	-	-	-	-	-	0.02J	14	190	ND(5.6)	0.9J	0.6J	1J	0.5J
B13	B13-1	8/11/2005	1.0	660	-	-	-	-	-	-	-	-	-	-	-	-
	B13-3	8/11/2005	3.0	260	-	-	-	-	-	-	-	-	-	-	-	-
	B13-5	8/11/2005	5.0	410	-	-	-	-	-	-	-	-	-	-	-	-
	B13-9	8/11/2005	9.0	41,400	2,280	-	ND(20)	-	-	-	-	-	-	-	-	-
	B13-10	8/11/2005	10.0	2,960	1,200	-	ND(20)	-	-	-	-	-	-	-	-	-
B14	B14-1	8/11/2005	1.0	1,090	-	-	-	-	-	-	-	-	-	-	-	-
	B14-3	8/11/2005	3.0	130	-	-	-	-	-	-	-	-	-	-	-	-
	B14-5	8/11/2005	5.0	40	-	-	-	-	-	-	-	-	-	-	-	-
B15	B15-1	8/11/2005	1.0	20,690	-	-	-	-	-	-	-	-	-	-	-	-
	B15-3	8/11/2005	3.0	54	-	-	-	-	-	-	-	-	-	-	-	-
	B15-5	8/11/2005	5.0	52	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
HISTORICAL SOIL ANALYTICAL DATA - ORGANIC COMPOUNDS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	TRPH	TEPH (C9 - C36)	GRO	DRO (C10 - C28)	Motor Oil (C22 - C36)	TPH-g (C4 - C12)	DRO (C12 - C22)	Motor Oil (C23 - C32)	Volatile Organic Compounds				
												Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
				418.1	8015M	8015B	8015M	8015M	8015M	8015M	8015M	8260	8260	8260	8260	8260
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
B16	B16-1	8/11/2005	1.0	1,290	-	-	-	-	-	-	-	-	-	-	-	-
	B16-3	8/11/2005	3.0	1,980	-	-	-	-	-	-	-	-	-	-	-	-
	B16-10	8/11/2005	10.0	580	-	-	-	-	-	-	-	-	-	-	-	-
B17	B17-1	8/11/2005	1.0	3,650	-	-	-	-	-	-	-	-	-	-	-	-
	B17-3	8/11/2005	3.0	1,540	-	-	-	-	-	-	-	-	-	-	-	-
	B17-5	8/11/2005	5.0	1,180	-	-	-	-	-	-	-	-	-	-	-	-
	B17-10	8/11/2005	10.0	140	-	-	-	-	-	-	-	-	-	-	-	-
B18	B18-1	8/11/2005	1.0	380	-	-	-	-	-	-	-	-	-	-	-	-
	B18-3	8/11/2005	3.0	52	-	-	-	-	-	-	-	-	-	-	-	-
	B18-5	8/11/2005	5.0	90	-	-	-	-	-	-	-	-	-	-	-	-
B19	B19-1	8/11/2005	1.0	310	-	-	-	-	-	-	-	-	-	-	-	-
	B19-3	8/11/2005	3.0	50	-	-	-	-	-	-	-	-	-	-	-	-
	B19-5	8/11/2005	5.0	25J	-	-	-	-	-	-	-	-	-	-	-	-
B20	B20-1	8/11/2005	1.0	27,000	-	-	-	-	-	-	-	-	-	-	-	-
	B20-3	8/11/2005	3.0	1,300	-	-	-	-	-	-	-	-	-	-	-	-
	B20-5	8/11/2005	5.0	8,660	-	-	-	-	-	-	-	-	-	-	-	-
	B20-10	8/11/2005	10.0	16,360	-	-	-	-	-	-	-	-	-	-	-	-
B21	B21-1	8/11/2005	1.0	104		-	-	-	-	-	-	-	-	-	-	-
	B21-5	8/11/2005	5.0	170	934	-	ND(4)	-	-	-	-	-	-	-	-	-
	B21-9	8/11/2005	9.0	448,000 / 11,300	9,980	-	**9,980**	-	-	-	-	-	-	-	-	-
B22	B22-1	8/11/2005	1.0	490	-	-	-	-	-	-	-	-	-	-	-	-
	B22-5	8/11/2005	5.0	11J	-	-	-	-	-	-	-	-	-	-	-	-
	B22-9	8/11/2005	9.0	34	-	-	-	-	-	-	-	-	-	-	-	-
B23	B23-1	8/11/2005	1.0	2,840	-	-	-	-	-	-	-	-	-	-	-	-
	B23-3	8/11/2005	3.0	29	-	-	-	-	-	-	-	-	-	-	-	-
	B23-5	8/11/2005	5.0	34	-	-	-	-	-	-	-	-	-	-	-	-
B24	B24-1	8/11/2005	1.0	420	-	-	-	-	-	-	-	-	-	-	-	-
	B24-3	8/11/2005	3.0	27	-	-	-	-	-	-	-	-	-	-	-	-
B25	B25-1	8/11/2005	1.0	2,720	-	-	-	-	-	-	-	-	-	-	-	-
	B25-3	8/11/2005	3.0	28	-	-	-	-	-	-	-	-	-	-	-	-
B26	B26-1	8/11/2005	1.0	940	-	-	-	-	-	-	-	-	-	-	-	-
	B26-3	8/11/2005	3.0	24	-	-	-	-	-	-	-	-	-	-	-	-
B27	B27-1	8/11/2005	1.0	1,700	-	-	-	-	-	-	-	-	-	-	-	-
	B27-3	8/11/2005	3.0	3,900	-	-	-	-	-	-	-	-	-	-	-	-
	B27-5	8/11/2005	5.0	100	-	-	-	-	-	-	-	-	-	-	-	-
Excavation	58th & Fig	7/8/2009	17.0	70,100	-	29.2	**24,000**	ND(16)	-	-	-	ND(0.7)	ND(0.6)	ND(0.6)	ND(1.1)	ND(0.6)
Screening Values																
RSL - Residential				NV	NV	82	110	2,500	82	110	2,500	1,200*	5,800*	4,900,000*	550,000*	650,000*
RSL - Industrial				NV	NV	420	600	33,000	420	600	33,000	5,100*	25,000*	47,000,000*	2,400,000*	2,800,000*

Notes:

TEPH	Total extractable petroleum hydrocarbons
TRPH	Total recoverable petroleum hydrocarbons
TPH-g	Total petroleum hydrocarbons gasoline
(C9 - C36)	Carbon chain range of analysis
DRO	Diesel range organics (equivalent to total petroleum hydrocarbons as diesel)
8015B	United States Environmental Protection Agency (US EPA) analytical method number
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
ND	Not detected above the practical quantitation limit, which is shown in parentheses
--	Analysis not performed on sample
J	Estimated concentration between method detection limit and practical quantitation limit
NV	No published value
RSL	US EPA May 2014 Regional Screening Level (in mg/kg); RSL values for TPH-g, TPH-d, and TPH-o are for Aromatic Low, Medium, and High, respectively
Yellow shading	Indicates detected TPH concentration is higher than the residential RSL Screening Value
*	Screening value converted from mg/kg to µg/kg

TABLE 2
HISTORICAL SOIL ANALYTICAL DATA - TTLC METALS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

KLEINFELDER
Bright People. Right Solutions.

Bore Number	Sample Number	Sample Date	Sample Depth (feet)	Antimony 6010B (mg/kg)	Arsenic 6010B (mg/kg)	Barium 6010B (mg/kg)	Beryllium 6010B (mg/kg)	Cadmium 6010B (mg/kg)	Total Chromium 6010B (mg/kg)	Cobalt 6010B (mg/kg)	Copper 6010B (mg/kg)	Lead 6010B (mg/kg)	Mercury 7471A (mg/kg)	Molybdenum 6010B (mg/kg)	Nickel 6010B (mg/kg)	Selenium 6010B (mg/kg)	Silver 6010B (mg/kg)	Thallium 6010B (mg/kg)	Vanadium 6010B (mg/kg)	Zinc 6010B (mg/kg)
SB-1	SB-1-0.5	8/5/2003	0.5	-	4.0	-	-	-	-	-	-	109	0.12J	-	-	-	-	-	-	-
	SB-1-3	8/5/2003	3	-	1.2	-	-	-	-	-	-	1.2	0.013J	-	-	-	-	-	-	-
	SB-1-5	8/5/2003	5	-	2.1	-	-	-	-	-	-	38.7	0.20J	-	-	-	-	-	-	-
SB-2	SB-2-0.5	8/5/2003	0.5	-	1.1	-	-	-	-	-	-	50.0	0.22J	-	-	-	-	-	-	-
	SB-2-3	8/5/2003	3	-	4.1	-	-	-	-	-	-	90.9	0.097J	-	-	-	-	-	-	-
	SB-2-5	8/5/2003	5	-	1.9	-	-	-	-	-	-	3.5	0.13J	-	-	-	-	-	-	-
SB-3	SB-3-0.5	8/5/2003	0.5	-	3.7	-	-	-	-	-	-	184	0.16J	-	-	-	-	-	-	-
	SB-3-3	8/5/2003	3	-	3.9	-	-	-	-	-	-	30.3	0.091J	-	-	-	-	-	-	-
	SB-3-5	8/5/2003	5	-	2.9	-	-	-	-	-	-	31.9	0.16J	-	-	-	-	-	-	-
SB-4	SB-4-0.5	8/5/2003	0.5	-	5.7	-	-	-	-	-	-	181	0.13J	-	-	-	-	-	-	-
	SB-4-3	8/5/2003	3	-	3.9	-	-	-	-	-	-	98.6	0.10J	-	-	-	-	-	-	-
	SB-4-5	8/5/2003	5	-	4.0	-	-	-	-	-	-	23.9	0.13J	-	-	-	-	-	-	-
SB-5	SB-5-0.5	8/5/2003	0.5	-	2.2	-	-	-	-	-	-	3.5	0.078J	-	-	-	-	-	-	-
	SB-5-3	8/5/2003	3	-	2.5	-	-	-	-	-	-	3.6	0.056J	-	-	-	-	-	-	-
	SB-5-5	8/5/2003	5	-	2.2	-	-	-	-	-	-	3.1	0.11J	-	-	-	-	-	-	-
	SB-55-5	8/5/2003	5	-	1.6	-	-	-	-	-	-	2.8	0.0097J	-	-	-	-	-	-	-
SB-6	SB-6-0.5	8/5/2003	0.5	-	1.9	-	-	-	-	-	-	173	0.061J	-	-	-	-	-	-	-
	SB-66-0.5	8/5/2003	0.5	-	2.3	-	-	-	-	-	-	271	ND(0.21)	-	-	-	-	-	-	-
	SB-6-3	8/5/2003	3	-	1.2	-	-	-	-	-	-	3.2	0.047J	-	-	-	-	-	-	-
	SB-6-5	8/5/2003	5	-	0.71	-	-	-	-	-	-	2.9	0.11J	-	-	-	-	-	-	-
SB-7	SB-7-0.5	8/5/2003	0.5	-	4.2	-	-	-	-	-	-	126	0.39	-	-	-	-	-	-	-
	SB-7-3	8/5/2003	3	-	1.2	-	-	-	-	-	-	108	0.076J	-	-	-	-	-	-	-
	SB-7-5	8/5/2003	5	-	0.55	-	-	-	-	-	-	1.7	0.022J	-	-	-	-	-	-	-
SB-8	SB-8-0.5	8/5/2003	0.5	-	2.7	-	-	-	-	-	-	125	0.18J	-	-	-	-	-	-	-
	SB-8-3	8/5/2003	3	-	1.6	-	-	-	-	-	-	46.5	2.7	-	-	-	-	-	-	-
	SB-8-5	8/5/2003	5	-	2.1	-	-	-	-	-	-	126	2.1	-	-	-	-	-	-	-
	SB-8-10	8/5/2003	10	-	7.0	-	-	-	-	-	-	401	0.54	-	-	-	-	-	-	-
SB-9	SB-9-0.5	8/5/2003	0.5	-	1.6	-	-	-	-	-	-	5.5	0.13J	-	-	-	-	-	-	-
	SB-99-0.5	8/5/2003	0.5	-	3.2	-	-	-	-	-	-	103	0.038J	-	-	-	-	-	-	-
	SB-9-3	8/5/2003	3	-	1.3	-	-	-	-	-	-	4.7	0.060J	-	-	-	-	-	-	-
	SB-9-5	8/5/2003	5	-	1.5	-	-	-	-	-	-	3.3	0.092J	-	-	-	-	-	-	-
SB-10	SB-10-0.5	8/5/2003	0.5	-	1.3	-	-	-	-	-	-	85.5	0.12J	-	-	-	-	-	-	-
	SB-100-0.5	8/5/2003	0.5	-	2.0	-	-	-	-	-	-	44.3	ND(0.21)	-	-	-	-	-	-	-
	SB-10-3	8/5/2003	3	-	0.62	-	-	-	-	-	-	3.5	0.075J	-	-	-	-	-	-	-
	SB-10-5	8/5/2003	5	-	1.2	-	-	-	-	-	-	4.8	0.12J	-	-	-	-	-	-	-
SB-11	SB-11-0.5	8/5/2003	0.5	-	0.77	-	-	-	-	-	-	5.0	0.085J	-	-	-	-	-	-	-
	SB-11-3	8/5/2003	3	-	2.1	-	-	-	-	-	-	4.2	0.074J	-	-	-	-	-	-	-
	SB-11-5	8/5/2003	5	-	0.39	-	-	-	-	-	-	3.8	0.070J	-	-	-	-	-	-	-
SB-12	SB-12-0.5	8/5/2003	0.5	-	3.4	-	-	-	-	-	-	140	0.0072J	-	-	-	-	-	-	-
	SB-12-4	8/5/2003	4	-	1.7	-	-	-	-	-	-	46.5	0.17J	-	-	-	-	-	-	-
	SB-12-5	8/5/2003	5	-	3.3	-	-	-	-	-	-	115	ND(0.22)	-	-	-	-	-	-	-
B13	B13-1	8/11/2005	1	6.3	4.5J	70.6	ND(0.3)	1.3J	9.4	11.4	6.3	10.2	-	0.9J	5.8	8.6	ND(2.5)	ND(2.5)	26.0	34.6
	B13-3	8/11/2005	3	9.3	5.0J	140.2	0.5J	1.8J	17.3	17.8	15.3	7.9	-	0.9J	10.4	ND(0.7)	ND(2.5)	ND(2.5)	40.2	51.0
	B13-5	8/11/2005	5	8.0	3.5J	138.0	0.4J	1.8J	20.0	18.0	12.5	13.8	-	1.10	10.4	ND(0.7)	ND(2.5)	ND(2.5)	40.1	49.1
	B13-9	8/11/2005	9	3.4J	ND(1.0)	89.5	ND(0.3)	0.9J	8.4	9.3	8.1	15.0	-	1.10	11.9	0.7J	ND(2.5)	ND(2.5)	23.5	24.2
	B13-10	8/11/2005	10	9.2	3.6J	229.7	0.4J	2.3J	15.8	16.1	10.9	193.2	-	0.8J	10.4	ND(0.7)	ND(2.5)	ND(2.5)	36.0	94.7
B14	B14-1	8/11/2005	1	7.7	4.2J	105.1	0.4J	1.8J	12.6	14.6	12.5	82.9	-	0.5J	8.0	ND(0.7)	ND(2.5)	ND(2.5)	32.5	59.1
	B14-3	8/11/2005	3	4.2	3.4J	86.0	ND(0.3)	1.2J	14.4	10.7	5.9	6.6	-	0.2J	6.5	2.0J	ND(2.5)	ND(2.5)	24.8	23.5
	B14-5	8/11/2005	5	8.2	2.4J	89.9	0.3J	1.4J	11.8	13.8	7.3	3.6J	-	0.6J	7.4	ND(0.7)	ND(2.5)	ND(2.5)	29.2	32.8
B15	B15-1	8/11/2005	1	5.6	4.3J	92.7	ND(0.3)	1.2J	15.0	12.0	17.7	28.6	-	2.40	22.4	ND(0.7)	ND(2.5)	ND(2.5)	27.4	50.5
	B15-3	8/11/2005	3	8.1	6.4	96.7	0.3J	1.1J	14.0	13.3	8.4	6.3	-	2.30	7.4	4.5	ND(2.5)	ND(2.5)	32.0	30.5
	B15-5	8/11/2005	5	8.1	3.1J	91.4	0.3J	1.5J	12.9	15.0	8.2	4.7	-	0.8J	7.4	1.2J	ND(2.5)	ND(2.5)	33.2	40.9
B16	B16-1	8/11/2005	1	8.1	3.8J	92.5	0.4J	1.5J	12.3	13.8	11.2	33.9	-	0.7J	8.0	ND(0.7)	ND(2.5)	ND(2.5)	32.2	47.8
	B16-3	8/11/2005	3	9.7	1.7J	210.3	0.3J	1.8J	36.1	19.9	20.0	11.0	-	0.6J	13.0	ND(0.7)	ND(2.5)	ND(2.5)	58.8	68.4
	B16-10	8/11/2005	10	10.7	4.5J	138.0	0.4J	1.5J	15.2	13.3	9.1	32.6	-	0.6J	10.3	ND(0.7)	ND(2.5)	ND(2.5)	38.0	56.0
B17	B17-1	8/11/2005	1	10.7	4.6J	128.3	0.5J	2.1J	19.4	16.7	16.7	65.3	-	0.4J	13.8	ND(0.7)	ND(2.5)	ND(2.5)	41.5	69.7
	B17-3	8/11/2005	3	7.1	3.6J	120.7	0.5J	1.9J	17.3	18.2	16.0	40.2	-	0.6J	12.2	ND(0.7)	ND(2.5)	ND(2.5)	38.9	76.2
	B17-5	8/11/2005	5	7.4	6.1	167.2	0.7J	2.7J	23.1	21.2	19.8	65.4	-	0.9J	19.4	ND(0.7)	ND(2.5)	ND(2.5)	64.0	121.0
	B17-10	8/11/2005	10	2.0J	5.9	89.9	ND(0.3)	1.3J	13.8	11.8	10.0	40.2	-	0.4J	7.2	10.0	ND(2.5)	ND(2.5)	25.5	39.9
B18	B18-1	8/11/2005	1	6.9	3.8J	98.7	0.3J	1.9J	12.7	14.9	12.2	63.5	-	0.7J	7.8	8.7	ND(2.5)	ND(2.5)	32.9	146.2
	B18-3	8/11/2005	3	7.7	5.8	129.6	0.5J	2.0J	16.7	18.9	14.0	12.2	-	2.1	10.6	ND(0.7)	ND(2.5)	ND(2.5)	42.0	50.8
	B18-5	8/11/2005	5	8.8	3.7J	114.2	0.4J	1.5J	15.2	17.4	9.2	3.6J	-	0.9J	8.7	ND(0.7)	ND(2.5)	ND(2.5)	36.3	40.8

TABLE 2
HISTORICAL SOIL ANALYTICAL DATA - TTLC METALS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

KLEINFELDER
Bright People. Right Solutions.

Bore Number	Sample Number	Sample Date	Sample Depth (feet)	Antimony 6010B (mg/kg)	Arsenic 6010B (mg/kg)	Barium 6010B (mg/kg)	Beryllium 6010B (mg/kg)	Cadmium 6010B (mg/kg)	Total Chromium 6010B (mg/kg)	Cobalt 6010B (mg/kg)	Copper 6010B (mg/kg)	Lead 6010B (mg/kg)	Mercury 7471A (mg/kg)	Molybdenum 6010B (mg/kg)	Nickel 6010B (mg/kg)	Selenium 6010B (mg/kg)	Silver 6010B (mg/kg)	Thallium 6010B (mg/kg)	Vanadium 6010B (mg/kg)	Zinc 6010B (mg/kg)
B19	B19-1	8/11/2005	1	7.5	4.6J	115.9	0.4J	2.3J	15.9	16.0	26.6	96.4	-	1.3	12.8	7.6	ND(2.5)	ND(2.5)	37.2	156.7
	B19-3	8/11/2005	3	10.0	4.5J	135.4	0.5J	2.1J	18.2	20.1	18.6	26.4	-	0.6J	11.1	ND(0.7)	ND(2.5)	ND(2.5)	44.2	62.2
	B19-5	8/11/2005	5	8.1	3.4J	118.5	0.4J	1.8J	15.7	17.6	10.2	6.2	-	0.4J	9.6	ND(0.7)	ND(2.5)	ND(2.5)	37.6	42.7
B20	B20-1	8/11/2005	1	1.5J	4.5J	69.2	ND(0.3)	1.1J	8.7	10.4	24.8	30.1	-	ND(0.2)	9.5	10.4	ND(2.5)	ND(2.5)	26.7	40.1
	B20-3	8/11/2005	3	13.3	8.4	788.0	ND(0.3)	3.0J	20.6	15.2	50.0	257.4	-	1.1	12.1	32.6	ND(2.5)	ND(2.5)	28.6	863.0
	B20-5	8/11/2005	5	8.2	7.9	92.9	0.3J	1.7J	19.2	13.8	47.9	33.6	-	1.6	18.3	ND(0.7)	ND(2.5)	ND(2.5)	27.9	59.1
	B20-10	8/11/2005	10	2.5J	1.2J	64.2	ND(0.3)	0.9J	6.3	7.3	4.8	6.1	-	0.5J	7.8	ND(0.7)	ND(2.5)	ND(2.5)	21.5	13.1
B21	B21-1	8/11/2005	1	9.4	5.1	96.3	0.4J	1.4J	13.9	15.3	10.9	14.6	-	2.3	8.6	ND(0.7)	ND(2.5)	ND(2.5)	34.4	42.7
	B21-5	8/11/2005	5	7.5	9.1	160.7	0.4J	1.8J	17.5	15.3	41.2	41.0	-	0.9J	13.2	ND(0.7)	ND(2.5)	ND(2.5)	34.5	79.9
	B21-9	8/11/2005	9	2.7J	5.9	74.4	ND(0.3)	1.2J	8.5	6.8	4.2	8.9	-	0.7J	6.0	ND(0.7)	ND(2.5)	ND(2.5)	17.1	126.3
	B21-9B	8/11/2005	9	5.9	6.4	99.4	0.3J	1.5J	16.2	11.6	35.1	80.4	-	2.3	22.6	0.9J	ND(2.5)	ND(2.5)	52.5	130.3
B22	B22-1	8/11/2005	1	10.4	10.6	122.4	0.4J	1.7J	14.3	14.3	13.0	19.5	-	0.8J	9.7	8.2	ND(2.5)	ND(2.5)	32.3	49.8
	B22-5	8/11/2005	5	8.8	2.8J	141.3	0.5J	1.9J	16.6	18.5	12.9	12.4	-	0.4J	9.9	ND(0.7)	ND(2.5)	ND(2.5)	40.2	50.2
	B22-9	8/11/2005	9	3.4J	3.8J	350.8	ND(0.3)	3.4	11.1	11.3	7.5	1,016	-	0.7J	5.9	25.2	ND(2.5)	ND(2.5)	25.5	620.4
B23	B23-1	8/11/2005	1	1.0J	ND(1.0)	84.9	ND(0.3)	1.2J	8.6	9.6	13.7	329.3	-	0.4J	6.6	1.3J	ND(2.5)	ND(2.5)	23.6	71.6
	B23-3	8/11/2005	3	8.2	3.4J	103.9	0.4J	1.8J	13.9	16.1	9.2	3.4J	-	0.4J	7.7	ND(0.7)	ND(2.5)	ND(2.5)	35.1	36.2
	B23-5	8/11/2005	5	7.8	2.3J	93.4	0.4J	1.4J	12.9	14.4	7.5	3.2J	-	0.3J	7.2	ND(0.7)	ND(2.5)	ND(2.5)	32.8	33.6
B24	B24-1	8/11/2005	1	3.0J	4.8J	101.8	0.4J	1.6J	8.1	10.9	13.2	208.8	-	0.4J	5.8	6.4	ND(2.5)	ND(2.5)	24.8	57.0
	B24-3	8/11/2005	3	8.3	4.5J	96.3	0.3J	1.4J	12.4	14.7	8.2	4.4J	-	0.3J	7.5	ND(0.7)	ND(2.5)	ND(2.5)	32.8	33.5
B25	B25-1	8/11/2005	1	2.1J	4.9J	88.2	ND(0.3)	1.4J	9.6	10.2	11.8	165.6	-	0.4J	9.0	ND(0.7)	ND(2.5)	ND(2.5)	27.5	53.5
	B25-3	8/11/2005	3	9.4	2.8J	113.6	0.4J	1.5J	15.4	16.8	9.2	5.5	-	0.6J	8.5	ND(0.7)	ND(2.5)	ND(2.5)	37.4	39.8
B26	B26-1	8/11/2005	1	6.8	3.0J	97.5	ND(0.3)	1.3J	10.4	12.1	10.9	147.1	-	0.4J	7.5	ND(0.7)	ND(2.5)	ND(2.5)	26.0	48.6
	B26-3	8/11/2005	3	6.5	5.4	157.2	0.6J	2.4J	21.3	22.9	19.4	18.3	-	0.6J	12.9	ND(0.7)	ND(2.5)	ND(2.5)	50.7	66.4
B27	B27-1	8/11/2005	1	8.1	5.9	129.1	ND(0.3)	1.5J	11.6	12.1	30.4	25.6	-	0.5J	7.9	ND(0.7)	ND(2.5)	ND(2.5)	26.6	83.3
	B27-3	8/11/2005	3	8.3	5.1	190.9	0.5J	2.7J	17.6	17.5	26.1	347.3	-	0.3J	13.6	6.5	ND(2.5)	ND(2.5)	38.2	206.4
	B27-5	8/11/2005	5	0.8J	3.1J	105.1	0.3J	1.3J	11.8	10.2	10.9	12.6	-	ND(0.2)	8.6	0.7J	ND(2.5)	ND(2.5)	22.2	20.5
Screening Values																				
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 (mg/L)				15	5	100	0.75	1	560/5	80	25	5	0.2	350	20	1	5	7	24	250
TCLP Value (mg/L)				NV	5	100	NV	1	5	NV	NV	5	0.2	NV	NV	1	5	NV	NV	NV
RSL - Residential (mg/kg)				31	0.062	15,000*	15.2*	4.58*	120,000**	23	3,100	80*	9.4***	390	1,500****	390	390	0.78	390	23,000
RSL - Industrial (mg/kg)				470	0.25	220,000*	183*	6.37*	1,800,000**	350	47,000	320*	40***	5,800	22,000****	5,800	5,800	12	5,800	350,000
	10xSTLC			150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	2,500
	20xTCLP			NV	100	2,000	NV	20	100	NV	NV	100	4	NV	NV	20	100	NV	NV	NV

Notes:

6010B	United States Environmental Protection Agency (US EPA) analytical method number
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
ND	Not detected above the practical quantitation limit, which is shown in parentheses
J	Estimated concentration between method detection limit and practical quantitation limit
--	Analysis not performed on sample
STLC	California Code of Regulations Title 22 Soluble Threshold Limit Concentration
TTLC	California Code of Regulations Title 22 Total Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
RSL	US EPA May 2014 Regional Screening Level (in mg/kg); note RSLs with an asterisk (*) are instead alternate soil screening levels provided in the California Office of Human and Ecological Risk's Human Health Risk Assesment Note No. 3, dated July 14, 2014
NV	No value
**	Trivalent chromium
***	Elemental mercury
****	Soluble nickel salts

347	Result greater than 10 x STLC
1,016	Result greater than TTLC and 10 x STLC and residential RSL Screening Value
	Samples tested for STLC metals [except mercury]
	Samples tested for STLC metals [except mercury] and TCLP metals
4.77 J	Indicates detected concentration is higher than the residential RSL Screening Value

TABLE 3
HISTORICAL SOIL ANALYTICAL DATA - STLC and TCLP METALS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

KLEINFELDER
Bright People. Right Solutions.

Bore Number	Sample Number	Sample Date	Sample Depth (feet)	Antimony 6010B (mg/L)	Arsenic 6010B (mg/L)	Barium 6010B (mg/L)	Beryllium 6010B (mg/L)	Cadmium 6010B (mg/L)	Total Chromium 6010B (mg/L)	Cobalt 6010B (mg/L)	Copper 6010B (mg/L)	Lead 6010B (mg/L)	Molybdenum 6010B (mg/L)	Nickel 6010B (mg/L)	Selenium 6010B (mg/L)	Silver 6010B (mg/L)	Thallium 6010B (mg/L)	Vanadium 6010B (mg/L)	Zinc 6010B (mg/L)
SOLUBLE METALS BY WET																			
B13	B13-1	8/11/2005	1	0.138	0.102J	0.72	0.055	0.128	0.083	0.155	0.268	2.030	0.026	0.175	ND(0.014)	ND(0.05)	ND(0.05)	0.194	3.710
	B13-3	8/11/2005	3	0.062J	0.120	1.11	0.016J	0.046J	0.049	0.122	0.142	0.093J	0.059	0.146	ND(0.014)	ND(0.05)	ND(0.05)	0.181	0.332
	B13-5	8/11/2005	5	0.024J	0.092J	0.61	ND(0.006)	0.020J	0.076	0.126	0.324	1.164	0.050	0.114	ND(0.014)	ND(0.05)	ND(0.05)	0.265	0.979
	B13-9	8/11/2005	9	0.056J	0.065J	0.79	0.043	0.089	0.146	0.102	0.130	0.636	0.030	0.314	ND(0.014)	ND(0.05)	ND(0.05)	0.090	0.892
	B13-10	8/11/2005	10	0.070J	0.080J	0.75	0.007J	0.013J	0.086	0.251	0.182	1.228	0.033	0.265	ND(0.014)	ND(0.05)	ND(0.05)	0.377	1.239
B14	B14-1	8/11/2005	1	0.056J	0.072J	1.80	ND(0.006)	0.018J	0.059	0.110	0.256	2.462	0.025	0.125	ND(0.014)	ND(0.05)	ND(0.05)	0.190	0.794
	B14-3	8/11/2005	3	ND(0.016)	0.162	2.50	0.008J	0.021J	0.211	0.050	0.084	0.261	0.015J	0.111	ND(0.014)	ND(0.05)	ND(0.05)	0.138	0.219
	B14-5	8/11/2005	5	0.056J	0.033J	1.25	ND(0.006)	ND(0.013)	0.047	0.093	0.104	0.226	0.013J	0.093	ND(0.014)	ND(0.05)	ND(0.05)	0.140	0.110
B15	B15-1	8/11/2005	1	0.098	0.113	1.11	ND(0.006)	0.020J	0.554	0.111	0.420	1.037	0.162	0.971	ND(0.014)	ND(0.05)	ND(0.05)	0.155	1.387
	B15-3	8/11/2005	3	0.216	0.262	1.83	0.206	0.847	0.657	0.579	0.257	0.363	ND(0.004)	0.716	0.458	ND(0.05)	ND(0.05)	0.320	3.767
	B15-5	8/11/2005	5	ND(0.016)	0.111	0.50	ND(0.006)	ND(0.013)	0.054	0.100	0.119	0.033J	ND(0.004)	0.098	ND(0.014)	ND(0.05)	ND(0.05)	0.180	0.321
B16	B16-1	8/11/2005	1	0.022J	0.114	0.62	ND(0.006)	ND(0.013)	0.066	0.078	0.340	1.329	0.019J	0.117	ND(0.014)	ND(0.05)	ND(0.05)	0.187	0.944
	B16-3	8/11/2005	3	0.053J	0.089J	0.49	ND(0.006)	ND(0.013)	0.064	0.099	0.110	0.339	ND(0.004)	0.086	ND(0.014)	ND(0.05)	ND(0.05)	0.161	1.129
	B16-10	8/11/2005	10	0.053J	0.078J	0.46	ND(0.006)	0.021J	0.067	0.205	0.368	1.616	0.014J	0.313	ND(0.014)	ND(0.05)	ND(0.05)	0.761	1.963
B17	B17-1	8/11/2005	1	0.375	0.385	1.71	ND(0.006)	ND(0.013)	0.346	0.122	0.119	1.319	ND(0.004)	0.259	0.303	ND(0.05)	ND(0.05)	0.080	3.037
	B17-3	8/11/2005	3	0.051J	0.065J	0.97	ND(0.006)	0.015J	0.084	0.258	0.250	1.197	0.032	0.257	ND(0.014)	ND(0.05)	ND(0.05)	0.448	1.302
	B17-5	8/11/2005	5	0.072J	0.087J	0.65	ND(0.006)	0.022J	0.070	0.241	0.443	2.039	0.024	0.344	ND(0.014)	ND(0.05)	ND(0.05)	0.860	4.341
	B17-10	8/11/2005	10	0.032J	0.124	1.99	ND(0.006)	ND(0.013)	0.179	0.155	0.183	0.984	0.022	0.268	ND(0.014)	ND(0.05)	ND(0.05)	0.358	0.568
B18	B18-1	8/11/2005	1	0.030J	0.096J	0.63	ND(0.006)	0.028J	0.049	0.127	0.285	1.203	0.013J	0.133	ND(0.014)	ND(0.05)	ND(0.05)	0.178	4.860
	B18-3	8/11/2005	3	ND(0.016)	0.035J	0.53	ND(0.006)	ND(0.013)	0.063	0.155	0.186	0.319	0.014J	0.118	ND(0.014)	ND(0.05)	ND(0.05)	0.222	0.233
	B18-5	8/11/2005	5	0.030J	0.096J	1.85	ND(0.006)	ND(0.013)	0.046	0.124	0.080	0.046J	0.010J	0.088	ND(0.014)	ND(0.05)	ND(0.05)	0.170	0.076
B19	B19-1	8/11/2005	1	ND(0.016)	0.144	1.09	ND(0.006)	0.029J	0.198	0.126	0.948	13.47	0.052	0.363	ND(0.014)	ND(0.05)	ND(0.05)	0.288	4.431
	B19-3	8/11/2005	3	0.022J	0.024J	1.52	ND(0.006)	ND(0.013)	0.072	0.169	0.282	1.350	0.020J	0.127	ND(0.014)	ND(0.05)	ND(0.05)	0.291	0.407
	B19-5	8/11/2005	5	ND(0.016)	ND(0.021)	0.53	ND(0.006)	ND(0.013)	0.043	0.136	0.088	0.244	0.011J	0.108	ND(0.014)	ND(0.05)	ND(0.05)	0.183	0.079
B20	B20-1	8/11/2005	1	ND(0.016)	0.037J	0.57	ND(0.006)	ND(0.013)	0.053	0.123	0.336	0.380	0.007J	0.133	ND(0.014)	ND(0.05)	ND(0.05)	0.226	0.389
	B20-3	8/11/2005	3	0.129	0.127	0.74	ND(0.006)	0.036J	0.147	0.125	1.485	5.217	0.022	0.238	0.307	ND(0.05)	ND(0.05)	0.197	16.810
	B20-5	8/11/2005	5	0.045J	0.159	1.04	ND(0.006)	0.028J	0.412	0.217	1.576	1.540	0.058	0.500	ND(0.014)	ND(0.05)	ND(0.05)	0.456	1.985
	B20-10	8/11/2005	10	0.028J	0.061J	0.60	ND(0.006)	ND(0.013)	0.066	0.060	0.208	0.861	0.008J	0.151	ND(0.014)	ND(0.05)	ND(0.05)	0.092	0.444
B21	B21-1	8/11/2005	1	0.036J	0.070J	1.23	ND(0.006)	ND(0.013)	0.039	0.084	0.233	0.396	0.020J	0.120	ND(0.014)	ND(0.05)	ND(0.05)	0.205	0.209
	B21-5	8/11/2005	5	ND(0.016)	0.168	1.65	ND(0.006)	ND(0.013)	0.286	0.121	1.036	1.147	0.044	0.386	ND(0.014)	ND(0.05)	ND(0.05)	0.286	1.594
	B21-9	8/11/2005	9	0.079J	0.190	1.44	ND(0.006)	ND(0.013)	0.221	0.055	0.038	ND(0.019)	0.027	0.162	ND(0.014)	ND(0.05)	ND(0.05)	0.306	0.052
	B21-9B	8/11/2005	9	0.068J	0.170	1.22	ND(0.006)	0.027J	0.126	0.117	0.989	3.451	0.012J	0.384	ND(0.014)	ND(0.05)	ND(0.05)	0.851	3.930
B22	B22-1	8/11/2005	1	0.064J	0.251	1.75	ND(0.006)	0.016J	0.120	0.099	0.334	1.352	0.032	0.194	ND(0.014)	ND(0.05)	ND(0.05)	0.280	1.421
	B22-5	8/11/2005	5	ND(0.016)	0.070J	0.66	ND(0.006)	ND(0.013)	0.056	0.158	0.169	0.384	0.015J	0.123	ND(0.014)	ND(0.05)	ND(0.05)	0.233	0.245
	B22-9	8/11/2005	9	0.104	0.142	0.87	ND(0.006)	0.181	0.165	0.086	0.204	58.120	0.021	0.110	1.611	ND(0.05)	ND(0.05)	0.226	49.810
B23	B23-1	8/11/2005	1	0.022J	0.090J	0.93	ND(0.006)	0.016J	0.093	0.078	0.570	21.600	0.005J	0.114	ND(0.014)	ND(0.05)	ND(0.05)	0.103	2.621
	B23-3	8/11/2005	3	0.022J	0.037J	1.33	ND(0.006)	ND(0.013)	0.028J	0.071	0.126	1.617	0.008J	0.091	ND(0.014)	ND(0.05)	ND(0.05)	0.198	0.059
	B23-5	8/11/2005	5	0.024J	0.065J	1.52	ND(0.006)	ND(0.013)	0.047	0.067	0.074	0.308	0.012J	0.069	ND(0.014)	ND(0.05)	ND(0.05)	0.129	0.043
B24	B24-1	8/11/2005	1	0.039J	0.089J	0.81	ND(0.006)	ND(0.013)	0.074	0.078	0.277	9.058	ND(0.004)	0.095	ND(0.014)	ND(0.05)	ND(0.05)	0.070	1.437
	B24-3	8/11/2005	3	0.032J	0.056J	1.24	ND(0.006)	ND(0.013)	0.037	0.093	0.118	1.086	0.012J	0.092	ND(0.014)	ND(0.05)	ND(0.05)	0.189	0.046
B25	B25-1	8/11/2005	1	0.060J	0.214	1.26	ND(0.006)	0.015J	0.149	0.088	0.311	7.135	0.023	0.226	ND(0.014)	ND(0.05)	ND(0.05)	0.184	1.215
	B25-3	8/11/2005	3	0.049J	0.080J	1.10	ND(0.006)	ND(0.013)	0.046	0.119	0.172	0.041J	0.019J	0.110	ND(0.014)	ND(0.05)	ND(0.05)	0.207	0.081
B26	B26-1	8/11/2005	1	0.058J	0.124	1.49	ND(0.006)	ND(0.013)	0.072	0.075	0.297	6.203	0.006J	0.107	ND(0.014)	ND(0.05)	ND(0.05)	0.152	0.916
	B26-3	8/11/2005	3	0.072J	ND(0.021)	2.60	ND(0.006)	ND(0.013)	0.023J	0.060	0.094	0.808	0.015J	0.084	ND(0.014)	ND(0.05)	ND(0.05)	0.209	0.060

TABLE 3
HISTORICAL SOIL ANALYTICAL DATA - STLC and TCLP METALS
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth (feet)	Antimony 6010B (mg/L)	Arsenic 6010B (mg/L)	Barium 6010B (mg/L)	Beryllium 6010B (mg/L)	Cadmium 6010B (mg/L)	Total Chromium 6010B (mg/L)	Cobalt 6010B (mg/L)	Copper 6010B (mg/L)	Lead 6010B (mg/L)	Molybdenum 6010B (mg/L)	Nickel 6010B (mg/L)	Selenium 6010B (mg/L)	Silver 6010B (mg/L)	Thallium 6010B (mg/L)	Vanadium 6010B (mg/L)	Zinc 6010B (mg/L)
B27	B27-1	8/11/2005	1	ND(0.016)	0.201	2.38	ND(0.006)	0.020J	0.286	0.130	1.052	ND(0.019)	ND(0.004)	0.269	ND(0.014)	ND(0.05)	ND(0.05)	0.128	0.938
	B27-3	8/11/2005	3	ND(0.016)	0.085J	0.98	ND(0.006)	0.020J	0.082	0.122	0.319	1.969	0.025	0.184	ND(0.014)	ND(0.05)	ND(0.05)	0.168	3.914
	B27-5	8/11/2005	5	0.074J	0.179	1.87	ND(0.006)	ND(0.013)	0.279	0.146	0.285	0.184	0.036	0.373	ND(0.014)	ND(0.05)	ND(0.05)	0.261	0.643
SOLUBLE METALS BY TCLP																			
B13	B13-10	8/11/2005	10	--	0.024J	0.78J	--	ND(0.013)	ND(0.006)	--	--	ND(0.019)	--	--	ND(0.014)	ND (0.05)	--	--	--
B20	B20-3	8/11/2005	3	--	ND(0.021)	0.49J	--	0.018J	0.021J	--	--	2.712	--	--	0.109	ND (0.05)	--	--	--
B22	B22-9	8/11/2005	9	--	0.038J	0.56J	--	0.028J	0.028J	--	--	2.332	--	--	ND(0.014)	ND (0.05)	--	--	--
B23	B23-1	8/11/2005	1	--	ND(0.021)	0.94J	--	0.015J	0.008J	--	--	0.856	--	--	ND(0.014)	ND (0.05)	--	--	--
B24	B24-1	8/11/2005	1	--	ND(0.021)	0.92J	--	ND(0.013)	0.014J	--	--	0.347	--	--	ND(0.014)	ND (0.05)	--	--	--
B25	B25-1	8/11/2005	1	--	0.046J	0.84J	--	ND(0.013)	0.011J	--	--	ND(0.019)	--	--	ND(0.014)	ND (0.05)	--	--	--
B26	B26-1	8/11/2005	1	--	0.030J	0.94	--	ND(0.013)	ND(0.006)	--	--	0.100	--	--	ND(0.014)	ND (0.05)	--	--	--
B27	B27-3	8/11/2005	3	--	0.031J	0.84	--	ND(0.013)	ND(0.006)	--	--	0.041J	--	--	ND(0.014)	ND (0.05)	--	--	--
Screening Values																			
STLC (mg/L)				15	5	100	0.75	1	560/5	80	25	5	350	20	1	5	7	24	250
TCLP (mg/L)				--	5	100	--	1	5	--	--	5	--	--	1	5	--	--	--

Notes:

6010B	United States Environmental Protection Agency (US EPA) analytical method number
mg/L	Milligrams per liter
ND	Not detected above the practical quantitation limit, which is shown in parentheses
J	Estimated concentration between method detection limit and practical quantitation limit
--	Analysis not performed on sample
STLC	California Code of Regulations Title 22 Soluble Threshold Limit Concentration
TCLP	Toxic Characteristic Leaching Procedure

Concentration exceeds the STLC threshold

TABLE 4
2013 SOIL ANALYTICAL DATA
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	GRO	TRPH	TEPH (C9 - C36)	DRO (C10 - C28)	Motor Oil (C22 - C36)	Butylbenzene	sec-Butylbenzene	4-Chlorotoluene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Napthalene	Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene
				8015B	418.1	8015M	8015M	8015M	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
KLF-1	KLF-1-10	5/13/2013	10	ND (22)	11,749	4,280	**3,240**	1,040	1,200	ND (27)	38 J	1,003	786	447	3,456	1,449	42 J	196	ND (75)	ND (28)
	KLF-1-15	5/13/2013	15	ND (22)	61 J	ND (4)	ND (29)	ND (35)	2,372	1,425	ND (28)	2,146	1,431	1,313	**5,485**	2,684	7,680	1,764	1,524	855
	KLF-1-20	5/13/2013	20	ND (1.1)	56 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-25	5/13/2013	25	ND (1.1)	38 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-30	5/13/2013	30	ND (1.1)	26 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-35	5/13/2013	35	ND (1.1)	37 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-40	5/13/2013	40	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-45	5/13/2013	45	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-50	5/13/2013	50	ND (1.1)	31 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-55	5/13/2013	55	ND (1.1)	26 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-60	5/13/2013	60	ND (1.1)	ND (18)	4.3 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-65	5/13/2013	65	ND (1.1)	ND (18)	12.1 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-70	5/13/2013	70	ND (1.1)	31 J	12.3 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-75	5/13/2013	75	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-80	5/13/2013	80	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-85	5/13/2013	85	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-1-90	5/13/2013	90	ND (1.1)	ND (18)	4.5 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
KLF-2	KLF-2-10	5/14/2013	10	ND (22)	13,093	5,540	**4,520**	1,020	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-15	5/14/2013	15	ND (1.1)	1,592	429	ND (29)	429	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-20	5/14/2013	20	ND (1.1)	ND (18)	12.7 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-25	5/14/2013	25	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-30	5/14/2013	30	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-35	5/14/2013	35	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-40	5/14/2013	40	ND (1.1)	ND (18)	12.3 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-45	5/14/2013	45	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-50	5/14/2013	50	ND (1.1)	ND (18)	5.3 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-55	5/14/2013	55	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-60	5/14/2013	60	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-2-65	5/14/2013	65	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)

Notes:

GRO	Gasoline range organics (equivalent to total petroleum hydrocarbons as gasoline)
TEPH	Total extractable petroleum hydrocarbons
(C9 - C36)	Carbon chain range of analysis
DRO	Diesel range organics (equivalent to total petroleum hydrocarbons as diesel)
8015B	United States Environmental Protection Agency (US EPA) analytical method number
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
ND	Not detected, below the method detection limit, which is shown in parentheses
J	Estimated concentration between method detection limit and practical quantitation limit
*	Peaks in the diesel range but chromatogram does not match that of diesel standard
CHHSL	California Human Health Screening Level (January 2005)
NL	Not listed
RSL	US EPA Regional Screening Level (May 2013)
MSSL	Los Angeles Regional Water Quality Control Board Maximum Soil Screening Level (2004); MSSL assumes depth to groundwater below sample is between 20 feet and 150 feet
Shading	Indicates detected concentration is higher than the MSSL Screening Value or the residental RSL Screening Value
**	Screening value converted from mg/kg to µg/kg

TABLE 4
2013 SOIL ANALYTICAL DATA
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	GRO	TRPH	TEPH (C9 - C36)	DRO (C10 - C28)	Motor Oil (C22 - C36)	Butylbenzene	sec-Butylbenzene	4-Chlorotoluene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Napthalene	Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene
				8015B	418.1	8015M	8015M	8015M	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
KLF-3	KLF-3-10	5/15/2013	10	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-15	5/15/2013	15	ND (22)	51 J	12.1 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-20	5/15/2013	20	ND (1.1)	ND (18)	12.7 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-25	5/15/2013	25	ND (1.1)	ND (18)	12.2 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-30	5/15/2013	30	ND (1.1)	ND (18)	8.6 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-35	5/15/2013	35	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-40	5/15/2013	40	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-45	5/15/2013	45	ND (1.1)	ND (18)	8.6 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-50	5/15/2013	50	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-55	5/15/2013	55	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-60	5/15/2013	60	ND (1.1)	ND (18)	8.8 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-3-65	5/15/2013	65	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
KLF-4	KLF-4-5	5/16/2013	5	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-10	5/16/2013	10	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-15	5/16/2013	15	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-20	5/16/2013	20	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-25	5/16/2013	25	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-30	5/16/2013	30	ND (1.1)	22 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-35	5/16/2013	35	ND (1.1)	27 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-40	5/16/2013	40	ND (1.1)	27 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-45	5/16/2013	45	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-50	5/16/2013	50	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-55	5/16/2013	55	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-60	5/16/2013	60	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-65	5/16/2013	65	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-4-70	5/16/2013	70	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)

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2013 SOIL ANALYTICAL DATA
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5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	GRO	TRPH	TEPH (C9 - C36)	DRO (C10 - C28)	Motor Oil (C22 - C36)	Butylbenzene	sec-Butylbenzene	4-Chlorotoluene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Napthalene	Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene
				8015B	418.1	8015M	8015M	8015M	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
KLF-5	KLF-5-5	5/16/2013	5	ND (1.1)	273	342	**125 J**	217	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-10	5/16/2013	10	ND (1.1)	ND (18)	12.4 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-15	5/16/2013	15	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-20	5/16/2013	20	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-25	5/16/2013	25	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-30	5/16/2013	30	ND (1.1)	ND (18)	6.0 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-35	5/16/2013	35	ND (1.1)	ND (18)	7.5 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-40	5/16/2013	40	ND (1.1)	ND (18)	14.3 J	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-45	5/16/2013	45	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-50	5/16/2013	50	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-55	5/16/2013	55	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-60	5/16/2013	60	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-65	5/16/2013	65	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-5-70	5/16/2013	70	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
KLF-6	KLF-6-5	5/20/2013	5	ND (1.1)	7,198	1,710	**531**	1,180	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-10	5/20/2013	10	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-15	5/20/2013	15	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-20	5/20/2013	20	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-25	5/20/2013	25	ND (1.1)	36 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-30	5/20/2013	30	ND (1.1)	37 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-35	5/20/2013	35	ND (1.1)	21 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-40	5/20/2013	40	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-45	5/20/2013	45	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-50	5/20/2013	50	ND (1.1)	43 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-55	5/20/2013	55	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-60	5/20/2013	60	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-65	5/20/2013	65	ND (1.1)	22 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-6-70	5/20/2013	70	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)

Notes:

GRO	Gasoline range organics (equivalent to total petroleum hydrocarbons as gasoline)
TEPH	Total extractable petroleum hydrocarbons
(C9 - C36)	Carbon chain range of analysis
DRO	Diesel range organics (equivalent to total petroleum hydrocarbons as diesel)
8015B	United States Environmental Protection Agency (US EPA) analytical method number
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
ND	Not detected, below the method detection limit, which is shown in parentheses
J	Estimated concentration between method detection limit and practical quantitation limit
*	Peaks in the diesel range but chromatogram does not match that of diesel standard
CHHSL	California Human Health Screening Level (January 2005)
NL	Not listed
RSL	US EPA Regional Screening Level (May 2013)
MSSL	Los Angeles Regional Water Quality Control Board Maximum Soil Screening Level (2004); MSSL assumes depth to groundwater below sample is between 20 feet and 150 feet
Shading	Indicates detected concentration is higher than the MSSL Screening Value or the residental RSL Screening Value
**	Screening value converted from mg/kg to µg/kg

TABLE 4
2013 SOIL ANALYTICAL DATA
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Bore Number	Sample Number	Sample Date	Sample Depth	GRO	TRPH	TEPH (C9 - C36)	DRO (C10 - C28)	Motor Oil (C22 - C36)	Butylbenzene	sec-Butylbenzene	4-Chlorotoluene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Napthalene	Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene
				8015B	418.1	8015M	8015M	8015M	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
			(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
KLF-7	KLF-7-5	5/20/2013	5	ND (1.1)	86 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-10	5/20/2013	10	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-15	5/20/2013	15	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-20	5/20/2013	20	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-25	5/20/2013	25	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-30	5/20/2013	30	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-35	5/20/2013	35	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-40	5/20/2013	40	ND (1.1)	28 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-45	5/20/2013	45	ND (1.1)	21 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-50	5/20/2013	50	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-55	5/20/2013	55	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-60	5/20/2013	60	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-65	5/20/2013	65	ND (1.1)	ND (18)	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
	KLF-7-70	5/20/2013	70	ND (1.1)	29 J	ND (4)	ND (29)	ND (35)	ND (29)	ND (27)	ND (28)	ND (30)	ND (33)	ND (28)	ND (30)	ND (30)	ND (25)	ND (28)	ND (75)	ND (28)
Screening Values																				
CHHSL - Residential (mg/kg)				NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
CHHSL - Industrial (mg/kg)				NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
RSL - Residential (µg/kg)**				82	NL	NL	110	2,500	3,900,000	7,800,000	NL	5,800	1,900,000	NL	3,800	3,300,000	58,000	780,000	550,000	650,000
RSL - Industrial (µg/kg)**				420	NL	NL	600	33,000	58,000,000	120,000,000	NL	25,000	9,900,000	NL	17,000	22,000,000	240,000	12,000,000	2,400,000	2,800,000
MSSL (mg/kg)				500	NL	NL	1,000	10,000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Notes:

GRO	Gasoline range organics (equivalent to total petroleum hydrocarbons as gasoline)
TEPH	Total extractable petroleum hydrocarbons
(C9 - C36)	Carbon chain range of analysis
DRO	Diesel range organics (equivalent to total petroleum hydrocarbons as diesel)
8015B	United States Environmental Protection Agency (US EPA) analytical method number
mg/kg	Milligrams per kilogram
µg/kg	Micrograms per kilogram
ND	Not detected, below the method detection limit, which is shown in parentheses
J	Estimated concentration between method detection limit and practical quantitation limit
*	Peaks in the diesel range but chromatogram does not match that of diesel standard
CHHSL	California Human Health Screening Level (January 2005)
NL	Not listed
RSL	US EPA May 2014 Regional Screening Level (in mg/kg); RSL values for TPH-g, TPH-d, and TPH-o are for Aromatic Low, Medium, and High, respectively
MSSL	Los Angeles Regional Water Quality Control Board Maximum Soil Screening Level (2004); MSSL assumes depth to groundwater below sample is between 20 feet and 150 feet
Shading	Indicates detected concentration is higher than the MSSL Screening Value or the residental RSL Screening Value
**	Screening value converted from mg/kg to µg/kg

TABLE 5
2013 QUALITY CONTROL SAMPLE ANALYTICAL DATA
FORMER FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CALIFORNIA

Sample Number	Lab ID	Sample Date	GRO	Oil & Grease	TEPH (C9 - C36)	DRO (C10 - C28)	Motor Oil (C22 - C36)	Volatile Organic Compounds
			8015B	1664B	8015M	8015M	8015M	8260B
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)
QCTB	LN05576	5/13/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCFB	LN05595	5/13/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCEB	LN05577	5/13/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCTB	LN05647	5/14/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCFB	LN05660	5/14/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCEB	LN05646	5/14/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCTB	LN05738	5/15/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCFB	LN05752	5/15/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCEB	LN05739	5/15/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCTB	LN05826	5/16/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCFB	LN05824	5/16/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCEB	LN05825	5/16/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCTB	LN05903	5/20/2013	- -	- -	- -	- -	- -	ND (0.07 to 8.4)
QCFB	LN05902	5/20/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)
QCEB	LN05901	5/20/2013	ND (0.04)	ND (0.5)	ND (0.1)	ND (0.5)	ND (0.3)	ND (0.07 to 8.4)

Notes:

GRO	Gasoline range organics (equivalent to total petroleum hydrocarbons as gasoline)
TEPH	Total extractable petroleum hydrocarbons
(C9 - C36)	Carbon chain range of analysis
DRO	Diesel range organics (equivalent to total petroleum hydrocarbons as diesel)
8015B	United States Environmental Protection Agency (US EPA) analytical method number
mg/L	Milligrams per liter
µg/L	Micrograms per liter
ND	Not detected above the method detection limit, which is shown in parentheses
- -	Not analyzed

BORE LOGS

SAMPLE/SAMPLER TYPE GRAPHICS

STANDARD PENETRATION SPLIT SPOON SAMPLER (2 in. (50.8 mm.) outer diameter and 1-3/8 in. (34.9 mm.) inner diameter)

WELL MATERIAL GRAPHICS

WELL BACKFILL MATERIAL GRAPHICS

GROUND WATER GRAPHICS

- WATER LEVEL (level where first observed)
- WATER LEVEL (level after exploration completion)
- WATER LEVEL (additional levels after exploration)
- OBSERVED SEEPAGE

NOTES

1. The report and log key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.

2. Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.

3. No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.

4. Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.

5. In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.

6. Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.

7. If sampler is not able to be driven at least 6 inches, 50/X indicates number of blows required to drive the identified sampler X inches with a 140 pound hammer falling 30 inches.

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)

COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	**GRAVELS** (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu ≥4 and 1≤ Cc≤3		**GW**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			Cu <4 and/ or 1>Cc >3		**GP**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH 5% TO 12% FINES	Cu ≥4 and 1≤ Cc≤3		**GW-GM**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
			Cu <4 and/ or 1>Cc >3		**GP-GM**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
					GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		GRAVELS WITH > 12% FINES			**GM**	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
					GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
					GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
	SANDS (More than half of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu ≥6 and 1≤ Cc≤3		**SW**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			Cu <6 and/ or 1>Cc >3		**SP**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH 5% TO 12% FINES	Cu ≥6 and 1≤ Cc≤3		**SW-SM**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
			Cu <6 and/ or 1>Cc >3		**SP-SM**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
					SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		SANDS WITH > 12% FINES			**SM**	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
					SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
					SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES

FINE GRAINED SOILS (More than half of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)	**ML**	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Liquid Limit greater than 50)	**MH**	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	8/6/2013

GRAPHICS KEY

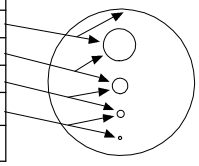
LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-1

GRAIN SIZE

DESCRIPTION		SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders		>12 in. (304.8 mm.)	>12 in. (304.8 mm.)	Larger than basketball-sized
Cobbles		3 - 12 in. (76.2 - 304.8 mm.)	3 - 12 in. (76.2 - 304.8 mm.)	Fist-sized to basketball-sized
Gravel	coarse	3/4 -3 in. (19 - 76.2 mm.)	3/4 -3 in. (19 - 76.2 mm.)	Thumb-sized to fist-sized
	fine	#4 - 3/4 in. (#4 - 19 mm.)	0.19 - 0.75 in. (4.8 - 19 mm.)	Pea-sized to thumb-sized
Sand	coarse	#10 - #4	0.079 - 0.19 in. (2 - 4.9 mm.)	Rock salt-sized to pea-sized
	medium	#40 - #10	0.017 - 0.079 in. (0.43 - 2 mm.)	Sugar-sized to rock salt-sized
	fine	#200 - #10	0.0029 - 0.017 in. (0.07 - 0.43 mm.)	Flour-sized to sugar-sized
Fines		Passing #200	<0.0029 in. (<0.07 mm.)	Flour-sized and smaller



Munsell Color

NAME	ABBR
Red	R
Yellow Red	YR
Yellow	Y
Green Yellow	GY
Green	G
Blue Green	BG
Blue	B
Purple Blue	PB
Purple	P
Red Purple	RP

ANGULARITY

DESCRIPTION	CRITERIA
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular	Particles are similar to angular description but have rounded edges
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges
Rounded	Particles have smoothly curved sides and no edges

PLASTICITY

DESCRIPTION	LL	FIELD TEST
Non-plastic	NP	A 1/8-in. (3 mm.) thread cannot be rolled at any water content.
Low (L)	< 30	The thread can barely be rolled and the lump or thread cannot be formed when drier than the plastic limit.
Medium (M)	30 - 50	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump or thread crumbles when drier than the plastic limit
High (H)	> 50	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump or thread can be formed without crumbling when drier than the plastic limit

MOISTURE CONTENT

DESCRIPTION	FIELD TEST
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

REACTION WITH HYDROCHLORIC ACID

DESCRIPTION	FIELD TEST
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

APPARENT / RELATIVE DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPT-N_{60} (# blows/ft)	MODIFIED CA SAMPLER (# blows/ft)	CALIFORNIA SAMPLER (# blows/ft)	RELATIVE DENSITY (%)
Very Loose	<4	<4	<5	0 - 15
Loose	4 - 10	5 - 12	5 - 15	15 - 35
Medium Dense	10 - 30	12- 35	15 - 40	35 - 65
Dense	30 - 50	35 - 60	40 - 70	65 - 85
Very Dense	>50	>60	>70	85 - 100

NOTE: AFTER TERZAGHI AND PECK, 1948

CONSISTENCY - FINE-GRAINED SOIL

CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (Qu)(psf)	CRITERIA
Very Soft	< 1000	Thumb will penetrate soil more than 1 in. (25 mm.)
Soft	1000 - 2000	Thumb will penetrate soil about 1 in. (25 mm.)
Firm	2000 < 4000	Thumb will indent soil about 1/4-in. (6 mm.)
Hard	4000 < 8000	Thumb will not indent soil but readily indented with thumbnail
Very Hard	> 8000	Thumbnail will not indent soil

STRUCTURE

DESCRIPTION	CRITERIA
Stratified	Alternating layers of varying material or color with layers at least 1/4-in. thick, note thickness
Laminated	Alternating layers of varying material or color with the layer less than 1/4-in. thick, note thickness
Fissured	Breaks along definite planes of fracture with little resistance to fracturing
Slickensided	Fracture planes appear polished or glossy, sometimes striated
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Lensed	Inclusion of small pockets of different soils, such as small lenses of sand scattered through a mass of clay; note thickness
Homogeneous	Same color and appearance throughout

CEMENTATION

DESCRIPTION	FIELD TEST
Weakly	Crumbles or breaks with handling or slight finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	8/6/2013

SOIL DESCRIPTION KEY

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-2

Date Begin - End:	5/13/2013 - 5/13/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-1**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, very hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,663.3
Easting: 6,476,096.2
Surveyed Surface Elevation (ft.): 147.3

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppm)	Graphical Log	
147	0							Slurry fill material from previous reservoir excavation
145	5							
142	10			18 in.	2 4 6	275		**Silty SAND (SM)**: fine-grained sand, olive gray (5Y-4/2), strong hydrocarbon odor, moist, loose to medium dense
140	15		KLF-1-15	18 in.	6 11 13	850		-Becomes medium dense
137	20		KLF-1-20	18 in.	7 15 22	2.0		**Well-Graded SAND (SW)**: fine-grained sand, olive brown (2.5Y-4/3), no odor, moist, dense
135	25		KLF-1-25	18 in.	6 8 9	1.9		-Becomes olive yellow (2.5Y-6/6), medium dense
132	30							**Clayey SAND (SC)**: fine-grained sand, olive brown (2.5Y-4/3), moist, medium dense

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PROJECT NO.:	133805
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BORING LOG KLF-1

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-3

Date Begin - End:	5/13/2013 - 5/13/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-1**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, very hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,663.3
Easting: 6,476,096.2
Surveyed Surface Elevation (ft.): 147.3

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppm)	Graphical Log	
115			KLF-1-30	18 in.	2 5 7	1.9		**Clayey SAND (SC)**: fine-grained sand, olive brown (2.5Y-4/3), moist, medium dense
	35		KLF-1-35	18 in.	6 10 12	1.0		**Silty SAND (SM)**: fine-grained sand, olive brown (2.5Y-4/3), moist, medium dense
110								
	40		KLF-1-40	18 in.	5 8 16	0.0		-Becomes rounded sand
105								
	45		KLF-1-45	18 in.	6 9 10	0.0		
100								
	50		KLF-1-50	18 in.	9 18 25	0.6		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, olive yellow (2.5Y-6/6), moist, dense
95								
	55		KLF-1-55	18 in.	7 11 8	0.0		-Becomes rounded sand, olive gray (5Y-4/2), medium dense
90								

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BORING LOG KLF-1

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-3

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/13/2013 - 5/13/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-1**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, very hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,663.3
Easting: 6,476,096.2
Surveyed Surface Elevation (ft.): 147.3

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppm)	Graphical Log	
85	65		KLF-1-60	18 in.	6 26 26	0.0		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, olive yellow (2.5Y-6/6), moist, dense -Becomes subrounded sand, olive brown (2.5Y-4/3), very dense
80	70		KLF-1-65	18 in.	10 15 17	0.0		-Becomes dense -Hard drilling probably due to coarse gravel or rock
75	75		KLF-1-70	12 in.	34 50/6"	0.0		**Poorly-Graded SAND with Gravel (SP)**: coarse-grained, subrounded sand, olive yellow (2.5Y-6/6), moist, very dense
70	80		KLF-1-75	17 in.	37 38 50/5"	0.0		-Becomes granitic gravel, olive brown (2.5Y-4/3)
65	85		KLF-1-80	10 in.	18 50/4"	0.0		
60			KLF-1-85	18 in.	16 35 47	0.0		-Becomes olive yellow (2.5Y-6/5)

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BORING LOG KLF-1

LADWP Figueroa Pump Station (FPS)
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PLATE

B-3

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/13/2013 - 5/13/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-1**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, very hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,663.3
Easting: 6,476,096.2
Surveyed Surface Elevation (ft.): 147.3

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppm)	Graphical Log	
			KLF-1-90	17 in.	14 40 51/5"			**Well-Graded SAND (SW)**: fine- to medium-grained, subrounded sand, moist, very dense
55								
	95							
50								
	100							
45								
	105							
40								
	110							
35								
	115							
30								

The exploration was terminated approximately 91.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
TD = 91.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 145 gallons).
The exploration location and elevation were surveyed by LADWP.

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PROJECT NO.:	133805
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BORING LOG KLF-1

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
B-3

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/14/2013 - 5/14/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-2**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot, slight breeze	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,640.2
Easting: 6,476,107.9
Surveyed Surface Elevation (ft.): 147.6

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
147.6	0							Slurry fill material from previous reservoir excavation
145	5							
140	10		KLF-2-10	18 in.	2 3 6	110		**Silty SAND (SM)**: subrounded sand, very dark grayish brown (10YR-3/2), strong hydrocarbon odor and staining, moist, loose
135	15		KLF-2-15	18 in.	5 8 10	0.5		-Becomes dark yellowish brown (10YR-3/4), no odor or staining, medium dense
130	20		KLF-2-20	18 in.	6 13 17	0.1		-Becomes fine-grained, brown (10YR-4/3), medium dense to dense
125	25		KLF-2-25	18 in.	5 9 9	0.1		**Well-Graded SAND (SW)**: subrounded sand, brown (10YR-4/3), moist, medium dense
120								

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BORING LOG KLF-2

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

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Date Begin - End:	5/14/2013 - 5/14/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-2**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot, slight breeze	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,640.2
Easting: 6,476,107.9
Surveyed Surface Elevation (ft.): 147.6

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
115			KLF-2-30	18 in.	2 4 6	0.0		**Silty SAND (SM)**: brown (10YR-5/3), moist, loose to medium dense, non-plastic to low plasticity fines
	35		KLF-2-35	18 in.	7 8 9	0.0		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (10YR-5/3), moist, medium dense
110								
	40		KLF-2-40	18 in.	4 8 12	0.0		-Becomes brown (7.5YR-4/3)
105								
	45		KLF-2-45	18 in.	5 10 9	0.1		**Silty SAND (SM)**: fine-grained, subrounded sand, brown (7.5YR-4/3), moist, medium dense
100								
	50		KLF-2-50	18 in.	9 16 20	0.1		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (7.5YR-4/2), moist, dense
95								
	55		KLF-2-55	18 in.	5 11 14	0.1		**Silty SAND (SM)**: fine-grained sand, brown (10YR-4/3), moist, medium dense
90								

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BORING LOG KLF-2

LADWP Figueroa Pump Station (FPS)
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PLATE

B-4

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/14/2013 - 5/14/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-2**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot, slight breeze	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,640.2
Easting: 6,476,107.9
Surveyed Surface Elevation (ft.): 147.6

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
85	65		KLF-2-60	18 in.	4 5 10	0.2		**Poorly-Graded SAND with Clay (SP-SC)**: fine-grained, dark grayish brown (10YR-3/2), moist, medium dense
80	70		KLF-2-65	18 in.	6 11 18	0.0		**Silty SAND (SM)**: fine-grained sand, dark brown (10YR-3/3), moist, medium dense
75	75							
70	80							
65	85							
60								

The exploration was terminated approximately 66.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
TD = 66.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 90 gallons).
The exploration location and elevation were surveyed by LADWP.

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BORING LOG KLF-2

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
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Date Begin - End:	5/15/2013 - 5/15/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-3**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly cloudy, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
								Northing: 1,818,664.2 Easting: 6,476,116.1 Surveyed Surface Elevation (ft.): 148.2 Surface Condition: Slurry Backfill
								Slurry fill material from previous reservoir excavation
145	5							
140	10		KLF-3-10	18 in.	2 2 3	0.0		**Silty SAND (SM)**: very dark grayish brown (10YR-3/2), moist, loose
135	15		KLF-3-15	18 in.	4 9 11	0.0		-Becomes fine-grained, subrounded sand, dark yellowish brown (10YR-3/4), moist, medium dense
130	20		KLF-3-20	18 in.	6 14 17	0.0		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (10YR-4/3), moist, dense
125	25		KLF-3-25	18 in.	4 7 8	0.0		-Becomes brown (7.5YR-5/2), medium dense
120								

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BORING LOG KLF-3

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

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Date Begin - End:	5/15/2013 - 5/15/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-3**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly cloudy, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,664.2
Easting: 6,476,116.1
Surveyed Surface Elevation (ft.): 148.2

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
115			KLF-3-30	18 in.	2 4 6	0.0		**Silty SAND (SM)**: fine-grained, brown (7.5YR-4/3), moist, loose to medium dense, low plasticity, trace clay
	35		KLF-3-35	18 in.	8 8 9	0.0		**Poorly-Graded SAND (SP)**: subrounded sand, brown (7.5YR-4/3), moist, medium dense
110								
	40		KLF-3-40	18 in.	3 7 11	0.0		-Becomes fine-grained sand
105								
	45		KLF-3-45	18 in.	5 8 9	0.2		
100								
	50		KLF-3-50	18 in.	4 10 11	0.2		
95								
	55		KLF-3-55	18 in.	6 8 9	0.3		
90								

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BORING LOG KLF-3

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-5

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

BORING LOG KLF-3

Date Begin - End:	5/15/2013 - 5/15/2013	**Drilling Company:**	Martini Drilling		
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly cloudy, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,664.2
Easting: 6,476,116.1
Surveyed Surface Elevation (ft.): 148.2

Surface Condition: Slurry Backfill

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
85	65		KLF-3-60	18 in.	6 5 16	0.1		**Sandy Lean CLAY (CL)**: brown (7.5YR-4/3), moist, firm, medium plasticity fines
80	70		KLF-3-65	18 in.	8 10 13	0.1		**Silty SAND (SM)**: fine-grained sand, brown (7.5YR-4/3), medium dense
75	75							
70	80							
65	85							
60								

The exploration was terminated approximately 66.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
TD = 66.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 120 gallons).
The exploration location and elevation were surveyed by LADWP.

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PROJECT NO.:	133805
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BORING LOG KLF-3

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
B-5

Date Begin - End:	5/16/2013 - 5/16/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-4**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly sunny, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,638.7
Easting: 6,476,080.8
Surveyed Surface Elevation (ft.): 152.2

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
150								**Fill:** **Poorly-Graded SAND with Silt (SP-SM)**: fine-grained sand, brown (7.5YR-5/3), dry, loose, with construction debris
								-No construction debris at approx. 3' bgs. **Native:** **Poorly-Graded SAND with Silt (SP-SM)**: fine-grained sand, brown (7.5YR-5/3), dry, loose
145	5		KLF-4-5	18 in.	2 3 5	0.0		
140	10		KLF-4-10	18 in.	4 6 7	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, light reddish brown (7.5YR-6/3), dry, medium dense
135	15		KLF-4-15	18 in.	1 3 4	0.0		**Silty SAND (SM)**: fine-grained, subrounded sand, brown (7.5YR-4/3), moist, loose
130	20		KLF-4-20	18 in.	4 9 12	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
125	25		KLF-4-25	18 in.	8 14 19	0.0		-Becomes dense

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PROJECT NO.:	133805
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BORING LOG KLF-4

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

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KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End: 5/16/2013 - 5/16/2013 | **Drilling Company:** Martini Drilling | **BORING LOG KLF-4**

Logged By: TWM | **Drill Crew:**

Hor.-Vert. Datum: NAD83 - NAVD88 | **Drilling Equipment:** CME-75 | **Hammer Type - Drop:** 140 lb. Auto - 30 in.

Plunge: -90 degrees | **Drilling Method:** Hollow Stem Auger

Weather: Partly sunny, warm | **Bit Type - Auger Dia.:** Hollow Stem - 6 in. O.D.

FIELD EXPLORATION

Northing: 1,818,638.7
Easting: 6,476,080.8
Surveyed Surface Elevation (ft.): 152.2

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
			KLF-4-30	18 in.	4 7 6	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense -Becomes medium dense
120								
	35		KLF-4-35	18 in.	3 3 5	0.0		**Sandy SILT (ML)**: brown (7.5YR-5/3), moist, firm, low plasticity
115								
	40		KLF-4-40	18 in.	4 7 12	0.0		**SILT with Sand (ML)**: brown (7.5YR-4/3), moist, firm, low plasticity
110								
	45		KLF-4-45	18 in.	4 11 14	0.0		**Silty SAND (SM)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense
105								
	50		KLF-4-50	18 in.	4 9 11	0.0		-Becomes brown (7.5YR-4/3)
100								
	55		KLF-4-55	8 in.	8 12 13	0.0		-Slight decrease in moisture
95								

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PROJECT NO.:	133805
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BORING LOG KLF-4

LADWP Figueroa Pump Station (FPS)
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PLATE

B-6

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BORING LOG KLF-4

Date Begin - End:	5/16/2013 - 5/16/2013	**Drilling Company:**	Martini Drilling		
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly sunny, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
								Northing: 1,818,638.7 Easting: 6,476,080.8 Surveyed Surface Elevation (ft.): 152.2 Surface Condition: Soil
90			KLF-4-60	18 in.	4 7 7	0.0		**SILT (ML)**: dark gray (7.5YR-4/1), firm, trace sand, low plasticity fines
	65		KLF-4-65	18 in.	5 13 16	0.0		**Poorly-Graded SAND with Clay (SP-SC)**: fine-grained sand, brown (7.5YR-4/2), moist, medium dense
	70		KLF-4-70	18 in.	8 13 15	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense
80								
	75							
75								
	80							
70								
	85							
65								

The exploration was terminated approximately 71.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
Hand augered to 5 feet below ground surface before switching to hollow stem auger.
TD = 71.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 120 gallons).
The exploration location and elevation were surveyed by LADWP.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-4

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
B-6

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/16/2013 - 5/16/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-5**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly sunny, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,655.7
Easting: 6,476,067.3
Surveyed Surface Elevation (ft.): 152.2

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
150								**Fill:** **Silty SAND (SM)**: brown (10YR-4/3), moist, loose, with construction debris (brick, etc.) related to former building
	5		KLF-5-5	18 in.	1 2 3	0.0		
145								
	10		KLF-5-10	18 in.	2 4 7	0.0		**Well-Graded SAND (SW)**: subrounded sand, brown (7.5YR-4/3), moist, medium dense
140								
	15		KLF-5-15	18 in.	2 3 5	0.0		**Silty SAND with Gravel (SM)**: fine-grained, reddish brown (5YR-4/4), moist, loose, possible soil fill
135								
	20		KLF-5-20	18 in.	4 8 14	0.0		**Silty SAND (SM)**: fine-grained, subrounded sand, brown (7.5YR-4/4), moist, medium dense
130								
	25		KLF-5-25	18 in.	9 15 17	0.0		**Poorly-Graded SAND with Silt (SP-SM)**: fine-grained, subrounded sand, moist, dense
125								

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-5

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-7

PAGE: 1 of 3

Date Begin - End:	5/16/2013 - 5/16/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-5**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Partly sunny, warm	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,655.7
Easting: 6,476,067.3
Surveyed Surface Elevation (ft.): 152.2

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
120			KLF-5-30	18 in.	6 7 10	0.0		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (10YR-5/3), moist, medium dense
	35		KLF-5-35	18 in.	2 4 6	0.0		-Becomes brown (7.5YR-5/3), decreased moisture, loose to medium dense
115								
	40		KLF-5-40	18 in.	7 6 9	0.0		**Silty SAND (SM)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
110								
	45		KLF-5-45	18 in.	4 7 13	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense
105								
	50		KLF-5-50	18 in.	7 11 13	0.0		**Silty SAND (SM)**: fine-grained, subrounded sand, brown (7.5YR-4/3), moist, medium dense
100								
	55		KLF-5-55	18 in.	8 14 16	0.0		-Becomes brown (7.5YR-4/2), decreased moisture
95								

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-5

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-7

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End: 5/16/2013 - 5/16/2013 | **Drilling Company:** Martini Drilling | **BORING LOG KLF-5**

Logged By: TWM | **Drill Crew:**

Hor.-Vert. Datum: NAD83 - NAVD88 | **Drilling Equipment:** CME-75 | **Hammer Type - Drop:** 140 lb. Auto - 30 in.

Plunge: -90 degrees | **Drilling Method:** Hollow Stem Auger

Weather: Partly sunny, warm | **Bit Type - Auger Dia.:** Hollow Stem - 6 in. O.D.

FIELD EXPLORATION

Northing: 1,818,655.7
Easting: 6,476,067.3
Surveyed Surface Elevation (ft.): 152.2

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
90			KLF-5-60	18 in.	6 12 14	0.0		**SILT with Sand (ML)**: dark gray (7.5YR-4/1), moist, firm
	65		KLF-5-65	18 in.	3 6 9	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
	70		KLF-5-70	18 in.	6 12 16	0.0		-Becomes subrounded sand
80								
	75							
75								
	80							
70								
	85							
65								

The exploration was terminated approximately 71.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.

GENERAL NOTES:
Hand augered to 5 feet below ground surface before switching to hollow stem auger.
TD = 71.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 120 gallons).
The exploration location and elevation were surveyed by LADWP.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-5

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
B-7

BORING LOG KLF-6

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling		
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,689.2
Easting: 6,476,087.2
Surveyed Surface Elevation (ft.): 152.8

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
								Asphalt (12 inches)
								Fill: **Silty SAND (SM)**: with construction debris
150	5		KLF-6-5	18 in.	1 2 3	0.1		**Silty SAND with Gravel (SM)**: dark yellowish brown (10YR-4/4), dry, loose, possible fill material
145	10		KLF-6-10	18 in.	5 6 10	0.1		**Poorly-Graded SAND (SP)**: fine- to medium-grained, subrounded sand, yellowish brown (10YR-5/4), dry, medium dense
140	15		KLF-6-15	18 in.	1 2 4	0.2		-Becomes loose
135	20		KLF-6-20	18 in.	2 7 10	0.1		**Silty SAND (SM)**: subrounded sand, brown (7.5YR-4/3), moist, medium dense
130	25		KLF-6-25	18 in.	9 17 21	0.2		-Becomes brown (7.5YR-5/3), dense
125								

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-6

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-8

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-6**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,689.2
Easting: 6,476,087.2
Surveyed Surface Elevation (ft.): 152.8

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
120	30		KLF-6-30	18 in.	5 8 10	0.2		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (7.5YR-5/3), moist, medium dense
115	35		KLF-6-35	18 in.	2 3 5	0.2		**Sandy SILT (ML)**: brown (7.5YR-5/4), moist, firm, trace clay, low plasticity fines
110	40		KLF-6-40	18 in.	4 12 9	0.1		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense
105	45		KLF-6-45	18 in.	4 4 8	0.2		**SILT with Sand (ML)**: fine-grained sand, brown (7.5YR-4/3), moist, firm, slightly micaceous
100	50		KLF-6-50	18 in.	4 7 9	0.1		-Becomes firm
95	55		KLF-6-55	18 in.	6 15 18	0.1		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, dense

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-6

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-8

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-6**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,689.2
Easting: 6,476,087.2
Surveyed Surface Elevation (ft.): 152.8

Surface Condition: Soil

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
90	65		KLF-6-60	18 in.	4 18 13	0.4		**SILT with Sand (ML)**: dark grayish brown (10YR-4/2), moist, hard, micaceous
85	70		KLF-6-65	18 in.	6 9 11	0.5		**Silty SAND (SM)**: fine- to medium-grained sand, brown (10YR-4/3), moist, medium dense, micaceous
80	75		KLF-6-70	18 in.	6 11 16	0.5		**Poorly-Graded SAND (SP)**: fine- to medium-grained sand, brown (7.5YR-5/3), moist, medium dense
75	80							
70	85							
65								

The exploration was terminated approximately 71.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
Hand augered to 5 feet below ground surface before switching to hollow stem auger.
TD = 71.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 120 gallons).
The exploration location and elevation were surveyed by LADWP.

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-6

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-8

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-7**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,637.8
Easting: 6,476,128.9
Surveyed Surface Elevation (ft.): 152.0

Surface Condition: Asphalt

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
150								**Silty SAND (SM)**: brown (7.5YR-4/3), dry, very loose, trace gravel
	5		KLF-7-5	18 in.	1 1 2	0.0		
145								
	10		KLF-7-10	18 in.	5 7 10	0.0		**Poorly-Graded SAND (SP)**: fine-grained, subrounded sand, brown (7.5YR-5/3), moist, medium dense
140								
	15		KLF-7-15	18 in.	2 2 5	0.0		**Silty SAND (SM)**: fine-grained sand, brown (7.5YR-4/3), moist, loose, micaceous
135								
	20		KLF-7-20	18 in.	5 7 9	0.0		**Poorly-Graded SAND with Silt (SP-SM)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
130								
	25		KLF-7-25	18 in.	9 17 19	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/3), moist, dense
125								

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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-7

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-9

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling	**BORING LOG KLF-7**	
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,637.8
Easting: 6,476,128.9
Surveyed Surface Elevation (ft.): 152.0

Surface Condition: Asphalt

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
120			KLF-7-30	18 in.	5 6 6	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/3), moist, dense -Becomes brown (7.5YR-5/3), moist, medium dense
	35		KLF-7-35	18 in.	3 4 5	0.6		**SILT (ML)**: brown (7.5YR-4/3), moist, firm, trace clay, non-plastic to low plasticity fines
115								
	40		KLF-7-40	18 in.	4 8 9	0.0		**Poorly-Graded SAND with Silt (SP-SM)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
110								
	45		KLF-7-45	12 in.	5 11 16	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-4/4), moist, medium dense
105								
	50		KLF-7-50	18 in.	5 8 9	0.0		**Sandy SILT (ML) to Silty SAND (SM):** fine-grained sand, brown (7.5YR-4/2), moist, medium dense to firm
100								
	55		KLF-7-55	18 in.	8 13 14	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense
95								

KLEINFELDER
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PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-7

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE

B-9

KLEINFELDER - 523 West 6th Street, Suite 620 | Los Angeles, CA 90014 | PH: 213.622.3706 | FAX: 213.612.4954 | www.kleinfelder.com

BORING LOG KLF-7

Date Begin - End:	5/20/2013 - 5/20/2013	**Drilling Company:**	Martini Drilling		
Logged By:	TWM	**Drill Crew:**			
Hor.-Vert. Datum:	NAD83 - NAVD88	**Drilling Equipment:**	CME-75	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Clear, hot	**Bit Type - Auger Dia.:**	Hollow Stem - 6 in. O.D.		

FIELD EXPLORATION

Northing: 1,818,637.8
Easting: 6,476,128.9
Surveyed Surface Elevation (ft.): 152.0

Surface Condition: Asphalt

Surveyed Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Recovery (NR=No Recovery)	Uncorr. blows/6 in.	PID / FID (ppmv)	Graphical Log	
90	65		KLF-7-60	18 in.	4 8 10	0.0		**Poorly-Graded SAND (SP)**: fine-grained sand, brown (7.5YR-5/3), moist, medium dense -Becomes brown (7.5YR-4/3), decreased moisture
85	70		KLF-7-65	18 in.	5 9 9	0.0		**Poorly-Graded SAND with Silt (SP-SM)**: fine-grained sand, brown (7.5YR-4/3), moist, medium dense
80	75		KLF-7-70	18 in.	5 9 15	0.0		-Increased moisture **(SP-SM)**
75	80							
70	85							
65								

The exploration was terminated approximately 71.5 feet below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not encountered during drilling or after completion.
GENERAL NOTES:
Hand augered to 5 feet below ground surface before switching to hollow stem auger.
TD = 71.5'. No apparent groundwater encountered.
Boring backfilled with grout/portland mix (approx. 120 gallons).
The exploration location and elevation were surveyed by LADWP.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	133805
DRAWN BY:	JC
CHECKED BY:	HAV
DATE:	5/30/2013
REVISED:	7/19/2013

BORING LOG KLF-7

LADWP Figueroa Pump Station (FPS)
Los Angeles, CA

PLATE
B-9

WASTE DISPOSAL MANIFESTS

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

41402

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /		394/722	A07	41042	0611

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	
LOS ANGELES DEPARTMENT OF WATER & POWER 111 N. HOPE ST. ROOM 1060 LOS ANGELES, CA 90012	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): *(name & address)*	Site Phone #:	
LADWP FIGUEROA PUMP STATION 6800 S. FIGUEROA STREET LOS ANGELES, CA	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): *(name & address)*	Facility Phone #:	
SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	(800) 862-8001	
	Person to Contact: DELLENA JEFFREY	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address:	Transporter's Phone #:	
BELSHIRE 26971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 222702	949-460-6200	CAR000163913
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-6210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	No Appts		46140	37600	8540
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					4.27

List any exception to items listed above: Scale Ticket # 109537

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☑ Consultant ☐	Signature and date:	Month	Day	Year
George Faeustle	George R Faeustle	7	11	13

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
FRANK Salazar		7	18	13

Recycling Facility

Discrepancies:
5800SFIG
90116.52

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
D. JEFFREY/J. PROVANSAL	7-25-13

Please print or type.

TRANSPORTER COPY

NON-HAZARDOUS WASTE DATA FORM

NO. 703477 16

BESI # 222792

GENERATOR

Generator's Name and Mailing Address
LOS ANGELES DEPARTMENT OF WATER & POWER
111 N. HOPE ST.
ROOM 1050
LOS ANGELES, CA 90012

Generator's Site Address (if different than mailing address)
LADWP FIGUEROA PUMP STATION
5800 S. FIGUEROA STREET
LOS ANGELES, CA

Generator's Phone:

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 2

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 1 Volume 110 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile
PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER
HANDLING INSTRUCTIONS:

Generator Printed/Typed Name: George Faeustle | Signature: George Faeustle | Month 7 | Day 11 | Year 13

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE | Phone# 949-460-5200

Transporter 1 Printed/Typed Name: FRANK SALAZAR | Signature | Month 7 | Day 18 | Year 13

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. | Phone# 714-990-6656

Transporter 2 Printed/Typed Name: Lupe Nieto | Signature | Month 7 | Day 23 | Year 13

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone# 310-537-7100

Printed/Typed Name: SOPHIA P SAY | Signature | Month 7 | Day 23 | Year 13

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

5800GAL
903715

ANALYTICAL LABORATORY REPORTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

CLIENT: GEORGE FAEUSTLE

PROJECT: Figueroa Pumping Station

REPORT NO.: C12071

TABLE OF CONTENTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

Figueroa Pumping Station
Soil and Water Samples

Soil and water samples taken from Figueroa Pumping Station between May 13, 2013 and May 20, 2013 were submitted to the Environmental Laboratory for determination of their Volatile Organic Compounds (VOCs), Total Extractable Petroleum Hydrocarbons (TEPH) including Motor Oil (MO) and Diesel Range Organic (DRO), Total Recoverable Petroleum Hydrocarbons (TRPH), Gasoline Range Organics (GRO), Polychlorinated Biphenyls (PCBs), and metals including mercury contents.

These samples were analyzed by Environmental Laboratory of the Integrated Support Services Business Unit. The analyses and their corresponding methodologies were as follows:

Analyte	Method of Analysis
Volatile Organic Compounds (VOCs)	EPA 8260B
Total Extractable Petroleum Hydrocarbons (TEPH, Motor oil (MO), Diesel Range Organics (DRO)	EPA 8015M
Total Recoverable Petroleum Hydrocarbons (TRPH)	EPA 418.1, 1664B
Gasoline Range Organics (GRO)	EPA 8015B
Polychlorinated Biphenyls (PCBs)	EPA 8082
Metals/Mercury	EPA 6010B/7471

The quality assurance data validates that the accompanying data for these samples are of acceptable quality. If you have any questions or if further information is required, please contact Mr. Kevin Han at (213) 367-7267.

Date Completed: 6/24/2013
Work Order No. AGM82
Job Card No.: J95508
Copies to: G. R. Faeustle
J. A. Gonzales
N. Liu
K. Han
T. Nguyen
FileNet

Test Performed by: Env. Laboratory
Report by: TN Date: 7/25/13
Checked by: KH Date: 8/1/13

APPROVED BY: Kevin Han 8/1/13
Kevin Han Date
Interim Manager of
Environmental Laboratory

Environmental Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC #: 13-1161 Page 1 of 2

Report C#_____ JC# J95568 WO# AGM82
Refrig#. R252 Shelf R2,S6 Bin#._____
Initial of Field Personnel: _____ No. of Field Test: _____ VOC=R9S11

Sample Location: LADWP \ Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 LN05576	5/13/13	0815	QCTB		4	G	40ml	Water	VOCs only TPH CCLD 8015B		
2 05577		0850	QCEB		12	G	-	Water			
3 05578		0905	KLF-1-10		4	-	-	Soil			
4 05579		0915	KLF-1-15								
5 05580		0920	KLF-1-20						TPH CCLD 8015B		
6 05581		0930	KLF-1-25						GRO 8015B		
7 05582		0940	KLF-1-30						TRPH 418.1		
8 05583		0950	KLF-1-35						VOCs (full) 5035/8260B		
9 05584		0955	KLF-1-40								
10 05585		1010	KLF-1-45								
11 05586		1015	KLF-1-50								
12 05587		1025	KLF-1-55								
13 05588		1030	KLF-1-60								
14 05589		1045	KLF-1-65								
15 05590		1050	KLF-1-70								
16 05591		1100	KLF-1-75								

LADWP Date & Time Stamp 2013 MAY 13 PM 2011 RECD BY: ENV. CHEM LAB
Chem Lab COC Form #1
Revision: 08/01/02

Requester George Fesuthe Organization/Div. _____
Address _____ Tel. 74708 Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

BT TY BE KH LH RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1345	5/13/13
Relinquished by: Travis Meier	Relinquished by:	1400	5/13/13
Received by TUYEN NGUYEN	Received by	1401	5/13/13

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Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC # : 13-116)

Report C#_____ JC#_____ WO#_____
Refrig#. R252 Shelf _____ Bin#._____
Initial of Field Personnel: _____ No. of Field Test: _____

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 LW05592	5/13/13	1115	KLF-1-80		4	-	-	Soil	TPH CCID 8015B		
2 ↕ 05593		1120	KLF-1-85		↓	↓	↓	↓	GRO 8015B		
3 ↓ 05594		1130	KLF-1-90		↓	↓	↓	↓	TRPH 418.1		
4									VOCs(fullscan) 5035/8260B		
5 LW05595		1300	QC.FB		4	x	x	Water	VOC only		
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

Date & Time Stamp
LADWP
2013 MAY 13 PM 01
RECD BY: ENV. CHEM LAB
Chem Lab COC Form #1
Revision: 08/01/02

Requester _____ Organization/Div. _____
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

	Printed Name	Signature	Time	Date
Sampled by:	Travis Meier			
Relinquished by:	Travis Meier		1345	5/13/13
Received by	TUYEN NGUYEN		1400	5/13/13
			1401	5/13/13

<< COC# Label Here >>

010033

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City of Los Angeles
Chain of Custody Record

COC #: 13-1171 Page 1 of 1

Report C#_____ JC# 95508 WO# AGM82
Refrig#. RQ52 Shelf R953 Bin#. R257
Initial of Field Personnel: No. of Field Test:

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN 05646	5/14/13	0845	QCEB	Varies	12	G	N/A	Water	TPH-CCID GRO TRPH VOCs (full scan)		
05647		0850	QCTB		4	G		Water	VOCs only (full scan)		
05648		0920	KLF-2-10		4	N/A		Soil	TPH-CCID, GRO, TRPH -VOCs (full scan)		
05649		0925	KLF-2-15								
05650		0935	KLF-2-20								
05651		0940	KLF-2-25								
05652		0950	KLF-2-30								
05653		0955	KLF-2-35								
05654		1010	KLF-2-40								
10 05655		1015	KLF-2-45								
11 05656		1030	KLF-2-50								
12 05657		1035	KLF-2-55								
13 05658		1040	KLF-2-60								
14 05659		1125	KLF-2-65								
15 05660		1215	QCFB	Varies	12	G		Water			
16											

LADWP Date & Time Stamp 2013 MAY 14 P 12:52 RECD BY: ENV. CHEM LAB

Chem Lab COC Form #1
Revision: 08/01/02

COC13-1171

Requester George Faeustle Organization/Div. _____
Address JFB 1044 Tel. 74708 Fax 73582

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

JY BE BT KH LK RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1200	5/14/13
Relinquished by: Travis Meier	Relinquished by:	1230	5/14/13
Received by Albert Ogunubi	Received by	1252	5-14-13

010034

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City of Los Angeles
Chain of Custody Record

COC #: 13-1192 Page 1 of 1

Report C# JC# 195508 WO# AGM82
Refrig#. R153 Shelf R8511 Bin#. R952 R854
Initial of Field Personnel: No. of Field Test:

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN05738	5/15/13	0745	QCTB		4	G	—	Water	VOC only (full scan)		
05739		0800	QCEB		12	G	—	Water	TPH-CCID, GRO, TRPH, VOCs (full scan)		
05740		0820	KLF-3-10		4	N/A	N/A	Soil			
05741		0825	KLF-3-15								
05742		0835	KLF-3-20								
05743		0840	KLF-3-25								
05744		0855	KLF-3-30							temp 13.6°C	
05745		0905	KLF-3-35							No 5-16-13	
05746		0910	KLF-3-40								
05747		0920	KLF-3-45								
05748		0930	KLF-3-50								
05749		0940	KLF-3-55								
05750		0945	KLF-3-60								
05751		1000	KLF-3-65								
05752		1130	QCFB		12	G	—				

LADWP Date & Time Stamp 2013 MAY 15 PM 2:33 RECD BY: ENV. CHEM LAB

Chem Lab COC Form #1
Revision: 08/01/02

Requester George Faerstle Organization/Div.
Address JFB 1044 Tel. 74708 Fax 73582

Analyst: Date
Approved: Date

Priority	
2-4 Hrs	JY
1Day	BE
2 Wks	BT
4Wks	KH
Specify	LK
	RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1415	5/15/13
Relinquished by: Travis Meier	Relinquished by:	1415	5/15/13
Received by: MARK DeMONACO	Received by:	1415	5-15-13
Albert Ogunnubi		1434	5-15-13

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City of Los Angeles
Chain of Custody Record

COC #: 13-1202 Page 1 of 3

Report C# _____ JC# J95508 WO# AGM82

Refrig#. R459 Shelf R954 Bin#. R153

Initial of Field Personnel: _____ No. of Field Test: _____

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN 05796	5/16/13	0830	KLF-5-5	—	4	N/A	N/A	Soil	TPH-CCID, GRO, TRPH VOCs (GulfScan)		
05797		0835	KLF-5-10								
05798		0840	KLF-5-15								
05799		0855	KLF-5-20								
05800		0900	KLF-5-25								
05801		0910	KLF-5-30								
05802		0915	KLF-5-35								
05803		0920	KLF-5-40								
05804		0930	KLF-5-45								
05805		0935	KLF-5-50								
05806		0940	KLF-5-55								
05807		0950	KLF-5-60								
05808		1000	KLF-5-65								
05809		1005	KLF-5-70								
15											
16											

LADWP Date & Time Stamp
2013 MAY 16 P 4:45
RECD BY: ENV. CHEM LAB

Chem Lab COC Form #1
Revision: 08/01/02

Requester George Fagerstle Organization/Div. _____

Address SF31044 Tel. 74708 Fax 73582

Analyst: _____ Date _____

Approved: _____ Date _____

Priority	
2-4 Hrs	BT
1Day	JY
2 Wks	BE
4Wks	KH
Specify	LK
	KG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1400	5/16/13
Relinquished by: Travis Meier	Relinquished by:	1400	5/16/13
Received by Mark DeMonaco	Received by	1410	5-16-13
Albert Ogunnoki		1448	5-16-13

010006

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City of Los Angeles
Chain of Custody Record

COC #: 13-1202 Page 2 of 3

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf_____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LW 05810	5/16/13	1145	KLF-4-5		4	N/A	N/A	Soil	TPH-CCID, GRO, TRPH VOCs (full scan)		
05811		1150	KLF-4-10								
05812		1200	KLF-4-15								
05813		1205	KLF-4-20								
05814		1210	KLF-4-25								
05815		1220	KLF-4-30								
05816		1230	KLF-4-35								
05817		1235	KLF-4-40								
05818		1240	KLF-4-45								
05819		1250	KLF-4-50								
05820		1255	KLF-4-55								
05821		1300	KLF-4-60								
05822		1315	KLF-4-65								
05823		1320	KLF-4-70								
15											
16											

LADWP 2013 MAY 16 P 2:45 RECD BY: ENV. CHEM LAB

Date & Time Stamp

>> COC# Label Here <<

Chem Lab COC Form #1
Revision: 08/01/02

Requester _____ Organization/Div. _____
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1400	5/16/13
Relinquished by: Travis Meier	Relinquished by:	1400	5/16/13
Received by MARK DeMONACO	Received by	1410	5-16-13
H. Ogunnubi		1448	5-16-13

010007

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City of Los Angeles
Chain of Custody Record

COC #: 13-1202 Page 3 of 3

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf _____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: LADWP Figueroa Pump Station

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
		0730	QCTB								
		0805	QCFB								
		0810	QCER QCFR								
LN05824		1345	QCFB		12	G	-	Water	TPH-CCID, GRO, TRPH, VOCs (Fullscan)		
LN05825		0800	QCEB		12	G	-	Water	↓		
LN05826		1400	QCTB		4	G	-	Water	VOCs only (fullscan)		
0			Temp 18.2°C						temp 3.7°C		
1			AO						AO 5-17-13		
2											
3											
4											
5											
6											

Date & Time Stamp
LADWP
2013 MAY 16 PM 4 45
RECD BY: ENV. CHEM LAB
Chem Lab COC Form #1
Revision: 08/01/02

Requester _____ Organization/Div. _____
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

	Printed Name	Signature	Time	Date
Sampled by:	Travis Meier		5/16/13	1400
Relinquished by:	Travis Meier		5/16/13	1400
Received by	DeMonaco		5-16-13	1410
	A. Ogunnaike		1448	5-16-13

<< COC# Label Here >>

010008

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City of Los Angeles
Chain of Custody Record

COC #: 13-123)

Page ___of___

Report C#_____ JC#_____ WO#_____

Refrig#. R852,53 Shelf VOC fridge Bin#._____

Initial of Field Personnel: _____ No. of Field Test: _____ Temp 14.5 °C

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use 1 or X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN05901	5/20/13	0800	QCEB						TPH-CCID, GRO, TRPH VOCs (full scan)		
LN05902	5/20/13	1230	QCFB						↓		
LN05903	5/20/13	0745	QCTB						VOCs only		
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

LADWP
2013 MAY 28 PM 1:32
RECD BY: ENV. CHEM LAB

COC13-1231

Chem Lab COC Form #1
Revision: 08/01/02

Date & Time Stamp

Requester _____ Organization/Div. _____

Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

TY
BE
BT
KH
LK
RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1300	5/20/13
Relinquished by: Travis Meier	Relinquished by:	1300	5/20/13
Received by MARK DeMONACO	Received by	1300	5/20/13
T. NGUYEN		1332	5/20/13

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City of Los Angeles
Chain of Custody Record

COC #: 13-1232 Page ___ of ___

Report C#_____ JC# J95508 WO# AG4482

Refrig#. R152 Shelf _____ Bin#._____

Initial of Field Personnel: _____ No. of Field Test: _____

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN 05904	5/20/13	1035	KLF-7-5		4	N/A	N/A	Soil	TPH-CCID, GRO, TRPH VOCs (full scan)		
05905		1040	KLF-7-10		4						
05906		1045	KLF-7-15*		7						
05907		1050	KLF-7-20		4						
05908		1055	KLF-7-25		4						
05909		1100	KLF-7-30		4						
05910		1115	KLF-7-35		4						
05911		1120	KLF-7-40		4						
05912		1125	KLF-7-45		4						
05913		1130	KLF-7-50		4						
05914		1140	KLF-7-55		4						
05915		1145	KLF-7-60		4						
05916		1150	KLF-7-65		7						
05917		1155	KLF-7-70*		4						
15											
16											

* MS/MSD samples included

Date & Time Stamp: LADWP 2013 MAY 20 PM 1:32 RECD BY: ENV. CHEM LAB

Chem Lab COC Form #1
Revision: 08/01/02

Requester _____ Organization/Div. _____

Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____

Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

JY
BF
BT
KH
LK
RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1500	5/20/13
Relinquished by: Travis Meier	Relinquished by:	1300	5/20/13
Received by MARK DEMONACO T NGUYEN	Received by:	1300	5/20/13
		1332	5/20/13

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Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC #: 13-1233

Page ___ of ___

Report C#_____ JC# J95508 WO# AGM82

Refrig#. R152 Shelf _____ Bin#._____

Initial of Field Personnel: _____ No. of Field Test: _____

Sample Location: LADWP Figueroa Pump Station (FPS)

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN 05918	5/20/13	0815	KLF-6-5		4	N/A	N/A	Soil	TPH-CCID, GRO, TRPH VOCs (Full scan)		
05919		0820	KLF-6-10		4						
05920		0825	KLF-6-15		4						
05921		0830	KLF-6-20		4						
05922		0835	KLF-6-25*		7						
05923		0845	KLF-6-30		4						
05924		0855	KLF-6-35		4						
05925		0900	KLF-6-40		4						
05926		0905	KLF-6-45		4						
05927		0910	KLF-6-50		4						
05928		0915	KLF-6-55		4						
~~05929~~ 05929	5/20/13	0925	KLF-6-60		4						
05930		0930	KLF-6-65		4						
05931		0935	KLF-6-70		4						
15											
16											

LADWP 2013 MAY 20 PM 1:32 RECD BY: ENV. CHEM LAB

Date & Time Stamp

Chem Lab COC Form #1
Revision: 08/01/02

* MS/MSD Samples Included

Requester _____ Organization/Div. _____

Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

JV
BE
BT
KH
LE
RGT

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1300	5/20/13
Relinquished by: Travis Meier	Relinquished by:	1300	5/20/13
Received by ~~Mark DeMonaco~~ T NGUYEN	Received by	1300 1332	~~5/20/13~~ 5/20/13

Environmental Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC #: 13-1234 Page ___ of ___

Report C#_____ JC# J95508 WO# AGM82

Refrig#. R132 Shelf _____ Bin#. _____

Initial of Field Personnel: _____ No. of Field Test: _____

Sample Location: _____

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
LN05932	5/20/13	1245	Soil Drum Profile	—	2	G	-	Soil	-TPH EPA 8015 -VOCs w/ MTBE EPA 8260 -Title 22 Metals including Mercury 6010B/7471A -PCBs 8082 Rush		
10											
11											
12											
13											
14											
15											
16											

LADWP Date & Time Stamp 2013 MAY 20 PM 1:32 RECD BY: ENV. CHEM LAB

Chem Lab COC Form #1
Revision: 08/01/02

Requester _____ Organization/Div. _____

Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____

Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

JY
BE
BT
DW
YC
KH, LA, RG

Printed Name	Signature	Time	Date
Sampled by: Travis Meier	Sampled by:	1300	5/20/13
Relinquished by: Travis Meier	Relinquished by:	1300	5/20/13
Received by MARK DELMONACO	Received by	1300	5-20-13
T NGUYEN		1332	5/20/13

010012

ATTACHMENT #1

Volatile Organic Compounds
(VOCs)
EPA Method 8260B

Soil & Water

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHOD 8260B
VOLATILE ORGANICS BY GC/MS

1. Holding Time

   Soil and water samples were analyzed within holding time.

2. Tuning and Calibration

   Tuning and calibration met QC requirements.

3. Method Blank

   There was no contamination detected at reporting level.

4. Lab Control Sample

   Recoveries met QC criteria.

5 Surrogate Recovery

   Recoveries met QC criteria.

6. Matrix Spike/Matrix Spike Duplicate

   Samples LN05580, LN05649, LN05740, LN05797, LN05810, LN05818, LN05906, LN05922, LN05646, and LN05754 were analyzed for MS/MSD. Recoveries met QC criteria.

7. Calibration

   Initial calibration was performed at five different concentrations. The percent relative standard deviation (% RSD) was within 15%. Recoveries for the continuing calibration check standards met QC requirements.

7. Sample Analysis

   Samples were analyzed according to the prescribed QC procedures. Volatile organic compounds were detected on samples LN05578 and LN05579.

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1161

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05578	5/13/2013	5/13/2013	5/17/2013	KLF-1-10
LN05579	5/13/2013	5/13/2013	5/17/2013	KLF-1-15
LN05580	5/13/2013	5/13/2013	5/17/2013	KLF-1-20
LN05581	5/13/2013	5/13/2013	5/17/2013	KLF-1-25
LN05582	5/13/2013	5/13/2013	5/17/2013	KLF-1-30
LN05583	5/13/2013	5/13/2013	5/17/2013	KLF-1-35
LN05584	5/13/2013	5/13/2013	5/17/2013	KLF-1-40

Compounds	MDL ug/kg	PQL ug/kg	LN05578 Amount ug/kg	LN05579 Amount ug/kg	LN05580 Amount ug/kg	LN05581 Amount ug/kg	LN05582 Amount ug/kg	LN05583 Amount ug/kg	LN05584 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	**1200**	**2372**	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	**1425**	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	**38J**	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	**1003**	**2146**	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1161

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05578	5/13/2013	5/13/2013	5/17/2013	KLF-1-10
LN05579	5/13/2013	5/13/2013	5/17/2013	KLF-1-15
LN05580	5/13/2013	5/13/2013	5/17/2013	KLF-1-20
LN05581	5/13/2013	5/13/2013	5/17/2013	KLF-1-25
LN05582	5/13/2013	5/13/2013	5/17/2013	KLF-1-30
LN05583	5/13/2013	5/13/2013	5/17/2013	KLF-1-35
LN05584	5/13/2013	5/13/2013	5/17/2013	KLF-1-40

Compounds	MDL ug/kg	PQL ug/kg	LN05578 Amount ug/kg	LN05579 Amount ug/kg	LN05580 Amount ug/kg	LN05581 Amount ug/kg	LN05582 Amount ug/kg	LN05583 Amount ug/kg	LN05584 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	**786**	**1431**	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	**447**	**1313**	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	**3456**	**5485**	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	**1449**	**2684**	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	**42J**	**7680**	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	**196**	**1764**	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	**1524**	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	**855**	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	117.0%	117.0%	105.0%	95.3%	95.0%	95.7%	93.7%
SURR: Dibromofluoromethane	80 - 120	103.3%	99.0%	102.7%	102.3%	101.3%	101.0%	100.0%
SURR: Toluene-d8	81 - 117	109.3%	102.3%	96.7%	94.7%	95.0%	94.0%	95.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05585	5/13/2013	5/13/2013	5/17/2013	KLF-1-45
LN05586	5/13/2013	5/13/2013	5/17/2013	KLF-1-50
LN05587	5/13/2013	5/13/2013	5/17/2013	KLF-1-55
LN05588	5/13/2013	5/13/2013	5/17/2013	KLF-1-60
LN05589	5/13/2013	5/13/2013	5/17/2013	KLF-1-65
LN05590	5/13/2013	5/13/2013	5/17/2013	KLF-1-70
LN05591	5/13/2013	5/13/2013	5/17/2013	KLF-1-75

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05585 Amount (ug/kg)	LN05586 Amount (ug/kg)	LN05587 Amount (ug/kg)	LN05588 Amount (ug/kg)	LN05589 Amount (ug/kg)	LN05590 Amount (ug/kg)	LN05591 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

020034

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05585	5/13/2013	5/13/2013	5/17/2013	KLF-1-45
LN05586	5/13/2013	5/13/2013	5/17/2013	KLF-1-50
LN05587	5/13/2013	5/13/2013	5/17/2013	KLF-1-55
LN05588	5/13/2013	5/13/2013	5/17/2013	KLF-1-60
LN05589	5/13/2013	5/13/2013	5/17/2013	KLF-1-65
LN05590	5/13/2013	5/13/2013	5/17/2013	KLF-1-70
LN05591	5/13/2013	5/13/2013	5/17/2013	KLF-1-75

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05585 Amount (ug/kg)	LN05586 Amount (ug/kg)	LN05587 Amount (ug/kg)	LN05588 Amount (ug/kg)	LN05589 Amount (ug/kg)	LN05590 Amount (ug/kg)	LN05591 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	91.0%	92.3%	91.0%	92.3%	89.0%	92.7%	91.7%
SURR: Dibromofluoromethane	80 - 120	101.0%	100.0%	100.3%	100.3%	101.0%	99.7%	100.0%
SURR: Toluene-d8	81 - 117	95.7%	95.0%	94.0%	94.3%	92.7%	91.7%	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020605

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/13/2013	5/13/2013	5/17/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/13/2013	5/13/2013	5/17/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	93.7%
SURR: Dibromofluoromethane	80 - 120	103.3%
SURR: Toluene-d8	81 - 117	93.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020007

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/17/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05578 LN LN05578 LN05579 LN05580 LN05581 LN05582 LN05583 LN05584 LN05585 LN05586 LN05587 LN05588 LN05
LAB SAMPLE I.D.: LN05580 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	25.9	86.3	30.0	25.7	85.7	0.70 %	59-172	22%
Benzene	ND	30.0	30.9	103	30.0	31.3	104	0.97 %	66-142	21%
Trichloroethylene	ND	30.0	29.3	97.7	30.0	29.8	99.3	1.6 %	62-137	24%
Toluene	ND	30.0	29.6	98.7	30.0	29.8	99.3	0.61 %	59-139	21%
Chlorobenzene	ND	30.0	35.2	117	30.0	36.0	120	2.5 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/17/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	31.5	30	105.0	70 - 130
1,2-Dichloroethane	31.1	30	103.7	70 - 130
1,4-Dichlorobenzene	31.1	30	103.7	70 - 130
Benzene	29	30	96.7	70 - 130
Bromoform	25.4	30	84.7	70 - 130
Carbon Tetrachloride	21.1	30	70.3	70 - 130
Tetrachloroethylene	27.4	30	91.3	70 - 130
Trichloroethylene	27	30	90.0	70 - 130

Analyst: B. Tiu

Reviewed by: R. Gentallen 6/4/13

020008

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05648	5/14/2013	5/14/2013	5/17/2013	KLF-2-10
LN05649	5/14/2013	5/14/2013	5/17/2013	KLF-2-15
LN05650	5/14/2013	5/14/2013	5/17/2013	KLF-2-20
LN05651	5/14/2013	5/14/2013	5/17/2013	KLF-2-25
LN05652	5/14/2013	5/14/2013	5/17/2013	KLF-2-30
LN05653	5/14/2013	5/14/2013	5/18/2013	KLF-2-35
LN05654	5/14/2013	5/14/2013	5/18/2013	KLF-2-40

Compounds	MDL ug/kg	PQL ug/kg	LN05648 Amount ug/kg	LN05649 Amount ug/kg	LN05650 Amount ug/kg	LN05651 Amount ug/kg	LN05652 Amount ug/kg	LN05653 Amount ug/kg	LN05654 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

020009

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05648	5/14/2013	5/14/2013	5/17/2013	KLF-2-10
LN05649	5/14/2013	5/14/2013	5/17/2013	KLF-2-15
LN05650	5/14/2013	5/14/2013	5/17/2013	KLF-2-20
LN05651	5/14/2013	5/14/2013	5/17/2013	KLF-2-25
LN05652	5/14/2013	5/14/2013	5/17/2013	KLF-2-30
LN05653	5/14/2013	5/14/2013	5/18/2013	KLF-2-35
LN05654	5/14/2013	5/14/2013	5/18/2013	KLF-2-40

Compounds	MDL ug/kg	PQL ug/kg	LN05648 Amount ug/kg	LN05649 Amount ug/kg	LN05650 Amount ug/kg	LN05651 Amount ug/kg	LN05652 Amount ug/kg	LN05653 Amount ug/kg	LN05654 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	114.0%	100.0%	87.3%	85.0%	82.7%	87.7%	85.7%
SURR: Dibromofluoromethane	80 - 120	100.0%	100.7%	99.0%	99.7%	99.3%	99.3%	100.3%
SURR: Toluene-d8	81 - 117	102.0%	95.0%	94.7%	91.7%	89.0%	88.7%	86.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05655	5/14/2013	5/14/2013	5/18/2013	KLF-2-45
LN05656	5/14/2013	5/14/2013	5/18/2013	KLF-2-50
LN05657	5/14/2013	5/14/2013	5/18/2013	KLF-2-55
LN05658	5/14/2013	5/14/2013	5/18/2013	KLF-2-60
LN05659	5/14/2013	5/14/2013	5/18/2013	KLF-2-65

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05655 Amount (ug/kg)	LN05656 Amount (ug/kg)	LN05657 Amount (ug/kg)	LN05658 Amount (ug/kg)	LN05659 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05655	5/14/2013	5/14/2013	5/18/2013	KLF-2-45
LN05656	5/14/2013	5/14/2013	5/18/2013	KLF-2-50
LN05657	5/14/2013	5/14/2013	5/18/2013	KLF-2-55
LN05658	5/14/2013	5/14/2013	5/18/2013	KLF-2-60
LN05659	5/14/2013	5/14/2013	5/18/2013	KLF-2-65

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05655 Amount (ug/kg)	LN05656 Amount (ug/kg)	LN05657 Amount (ug/kg)	LN05658 Amount (ug/kg)	LN05659 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper					
SURR: Bromofluorobenzene	74 - 121	89.3%	88.0%	88.7%	84.3%	89.0%
SURR: Dibromofluoromethane	80 - 120	99.7%	98.0%	97.7%	98.0%	97.0%
SURR: Toluene-d8	81 - 117	88.7%	88.7%	89.3%	88.3%	90.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020612

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/17/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/17/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	88.3%
SURR: Dibromofluoromethane	80 - 120	102.0%
SURR: Toluene-d8	81 - 117	93.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020014

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/17/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05648 LN LN05648 LN05649 LN05650 LN05651 LN05652 LN05653 LN05654 LN05655 LN05656 LN05657 LN05658 LN05(
LAB SAMPLE I.D.: LN05649 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	28.3	94.3	30.0	29.6	98.7	4.6 %	59-172	22%
Benzene	ND	30.0	30.1	100	30.0	30.8	103	3.0 %	66-142	21%
Trichloroethylene	ND	30.0	29.0	96.7	30.0	30.5	102	5.3 %	62-137	24%
Toluene	ND	30.0	29.1	97.0	30.0	29.6	98.7	1.7 %	59-139	21%
Chlorobenzene	ND	30.0	34.5	115	30.0	35.4	118	2.6 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5117/2013 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q5057
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.9	30	109.7	70 - 130
1,2-Dichloroethane	33.1	30	110.3	70 - 130
1,4-Dichlorobenzene	32	30	106.7	70 - 130
Benzene	30.8	30	102.7	70 - 130
Bromoform	22.7	30	75.7	70 - 130
Carbon Tetrachloride	21.1	30	70.3	70 - 130
Tetrachloroethylene	30	30	100.0	70 - 130
Trichloroethylene	29.3	30	97.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 8/14/13

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05740	5/15/2013	5/15/2013	5/20/2013	KLF-3-10
LN05741	5/15/2013	5/15/2013	5/20/2013	KLF-3-15
LN05742	5/15/2013	5/15/2013	5/21/2013	KLF-3-20
LN05743	5/15/2013	5/15/2013	5/21/2013	KLF-3-25
LN05744	5/15/2013	5/15/2013	5/21/2013	KLF-3-30
LN05745	5/15/2013	5/15/2013	5/21/2013	KLF-3-35
LN05746	5/15/2013	5/15/2013	5/21/2013	KLF-3-40

Compounds	MDL ug/kg	PQL ug/kg	LN05740 Amount ug/kg	LN05741 Amount ug/kg	LN05742 Amount ug/kg	LN05743 Amount ug/kg	LN05744 Amount ug/kg	LN05745 Amount ug/kg	LN05746 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05740	5/15/2013	5/15/2013	5/20/2013	KLF-3-10
LN05741	5/15/2013	5/15/2013	5/20/2013	KLF-3-15
LN05742	5/15/2013	5/15/2013	5/21/2013	KLF-3-20
LN05743	5/15/2013	5/15/2013	5/21/2013	KLF-3-25
LN05744	5/15/2013	5/15/2013	5/21/2013	KLF-3-30
LN05745	5/15/2013	5/15/2013	5/21/2013	KLF-3-35
LN05746	5/15/2013	5/15/2013	5/21/2013	KLF-3-40

Compounds	MDL ug/kg	PQL ug/kg	LN05740 Amount ug/kg	LN05741 Amount ug/kg	LN05742 Amount ug/kg	LN05743 Amount ug/kg	LN05744 Amount ug/kg	LN05745 Amount ug/kg	LN05746 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	101.3%	103.3%	100.7%	100.7%	101.0%	100.3%	100.3%
SURR: Dibromofluoromethane	80 - 120	98.0%	97.0%	96.3%	97.0%	96.7%	96.0%	96.0%
SURR: Toluene-d8	81 - 117	94.0%	93.0%	93.3%	93.3%	94.0%	92.7%	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1192

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05747	5/15/2013	5/15/2013	5/21/2013	KLF-3-45
LN05748	5/15/2013	5/15/2013	5/21/2013	KLF-3-50
LN05749	5/15/2013	5/15/2013	5/21/2013	KLF-3-55
LN05750	5/15/2013	5/15/2013	5/21/2013	KLF-3-60
LN05751	5/15/2013	5/15/2013	5/21/2013	KLF-3-65

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05747 Amount (ug/kg)	LN05748 Amount (ug/kg)	LN05749 Amount (ug/kg)	LN05750 Amount (ug/kg)	LN05751 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05747	5/15/2013	5/15/2013	5/21/2013	KLF-3-45
LN05748	5/15/2013	5/15/2013	5/21/2013	KLF-3-50
LN05749	5/15/2013	5/15/2013	5/21/2013	KLF-3-55
LN05750	5/15/2013	5/15/2013	5/21/2013	KLF-3-60
LN05751	5/15/2013	5/15/2013	5/21/2013	KLF-3-65

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05747 Amount (ug/kg)	LN05748 Amount (ug/kg)	LN05749 Amount (ug/kg)	LN05750 Amount (ug/kg)	LN05751 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper						
SURR: Bromofluorobenzene	74 - 121	101.3%	101.0%	100.3%	101.0%	100.7%
SURR: Dibromofluoromethane	80 - 120	98.0%	97.3%	96.7%	96.7%	97.3%
SURR: Toluene-d8	81 - 117	94.0%	93.3%	94.0%	94.0%	94.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/15/2013	5/15/2013	5/20/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

020320

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/15/2013	5/15/2013	5/20/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	100.3%
SURR: Dibromofluoromethane	80 - 120	99.0%
SURR: Toluene-d8	81 - 117	94.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020021

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/20/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05740 LN LN05740 LN05741 LN05742 LN05743 LN05744 LN05745 LN05746 LN05747 LN05748 LN05749 LN05750 LN05
LAB SAMPLE I.D.: LN05740 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	31.5	105	30.0	32.3	108	2.8 %	59-172	22%
Benzene	ND	30.0	29.1	97.0	30.0	30.6	102	5.0 %	66-142	21%
Trichloroethylene	ND	30.0	30.2	101	30.0	31.0	103	2.0 %	62-137	24%
Toluene	ND	30.0	30.4	101	30.0	31.2	104	2.9 %	59-139	21%
Chlorobenzene	ND	30.0	35.4	118	30.0	36.7	122	3.3 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/20/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.2	30	107.3	70 - 130
1,2-Dichloroethane	29.8	30	99.3	70 - 130
1,4-Dichlorobenzene	31.6	30	105.3	70 - 130
Benzene	26.6	30	88.7	70 - 130
Bromoform	31.9	30	106.3	70 - 130
Carbon Tetrachloride	23.6	30	78.7	70 - 130
Tetrachloroethylene	27.5	30	91.7	70 - 130
Trichloroethylene	27.7	30	92.3	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 5/24/13

020022

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1202

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05796	5/16/2013	5/17/2013	5/22/2013	KLF-5-5
LN05797	5/16/2013	5/17/2013	5/22/2013	KLF-5-10
LN05798	5/16/2013	5/17/2013	5/22/2013	KLF-5-15
LN05799	5/16/2013	5/17/2013	5/22/2013	KLF-5-20
LN05800	5/16/2013	5/17/2013	5/23/2013	KLF-5-25
LN05801	5/16/2013	5/17/2013	5/23/2013	KLF-5-30
LN05802	5/16/2013	5/17/2013	5/23/2013	KLF-5-35

Compounds	MDL ug/kg	PQL ug/kg	LN05796 Amount ug/kg	LN05797 Amount ug/kg	LN05798 Amount ug/kg	LN05799 Amount ug/kg	LN05800 Amount ug/kg	LN05801 Amount ug/kg	LN05802 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1202

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05796	5/16/2013	5/17/2013	5/22/2013	KLF-5-5
LN05797	5/16/2013	5/17/2013	5/22/2013	KLF-5-10
LN05798	5/16/2013	5/17/2013	5/22/2013	KLF-5-15
LN05799	5/16/2013	5/17/2013	5/22/2013	KLF-5-20
LN05800	5/16/2013	5/17/2013	5/23/2013	KLF-5-25
LN05801	5/16/2013	5/17/2013	5/23/2013	KLF-5-30
LN05802	5/16/2013	5/17/2013	5/23/2013	KLF-5-35

Compounds	MDL ug/kg	PQL ug/kg	LN05796 Amount ug/kg	LN05797 Amount ug/kg	LN05798 Amount ug/kg	LN05799 Amount ug/kg	LN05800 Amount ug/kg	LN05801 Amount ug/kg	LN05802 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	100.7%	100.0%	99.3%	96.3%	98.7%	98.3%	98.3%
SURR: Dibromofluoromethane	80 - 120	98.7%	98.3%	100.3%	99.0%	98.0%	97.7%	98.0%
SURR: Toluene-d8	81 - 117	95.3%	95.0%	93.3%	93.7%	94.3%	93.7%	93.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020624

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05803	5/16/2013	5/17/2013	5/23/2013	KLF-5-40
LN05804	5/16/2013	5/17/2013	5/23/2013	KLF-5-45
LN05805	5/16/2013	5/17/2013	5/23/2013	KLF-5-50
LN05806	5/16/2013	5/17/2013	5/23/2013	KLF-5-55
LN05807	5/16/2013	5/17/2013	5/23/2013	KLF-5-60
LN05808	5/16/2013	5/17/2013	5/23/2013	KLF-5-65
LN05809	5/16/2013	5/17/2013	5/23/2013	KLF-5-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05803 Amount (ug/kg)	LN05804 Amount (ug/kg)	LN05805 Amount (ug/kg)	LN05806 Amount (ug/kg)	LN05807 Amount (ug/kg)	LN05808 Amount (ug/kg)	LN05809 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05803	5/16/2013	5/17/2013	5/23/2013	KLF-5-40
LN05804	5/16/2013	5/17/2013	5/23/2013	KLF-5-45
LN05805	5/16/2013	5/17/2013	5/23/2013	KLF-5-50
LN05806	5/16/2013	5/17/2013	5/23/2013	KLF-5-55
LN05807	5/16/2013	5/17/2013	5/23/2013	KLF-5-60
LN05808	5/16/2013	5/17/2013	5/23/2013	KLF-5-65
LN05809	5/16/2013	5/17/2013	5/23/2013	KLF-5-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05803 Amount (ug/kg)	LN05804 Amount (ug/kg)	LN05805 Amount (ug/kg)	LN05806 Amount (ug/kg)	LN05807 Amount (ug/kg)	LN05808 Amount (ug/kg)	LN05809 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	99.7%	99.3%	98.7%	96.3%	99.0%	96.0%	100.0%
SURR: Dibromofluoromethane	80 - 120	99.0%	98.3%	97.7%	96.7%	97.3%	97.7%	97.3%
SURR: Toluene-d8	81 - 117	94.0%	93.3%	92.0%	93.0%	94.0%	95.0%	87.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020026

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/22/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/22/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	100.3%
SURR: Dibromofluoromethane	80 - 120	100.0%
SURR: Toluene-d8	81 - 117	94.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020028

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05796 LN LN05796 LN05797 LN05798 LN05799 LN05800 LN05801 LN05802 LN05803 LN05804 LN05805 LN05806 LN05
LAB SAMPLE I.D.: LN05797 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	30.7	102	30.0	32.1	107	4.8 %	59-172	22%
Benzene	ND	30.0	30.1	100	30.0	31.7	106	5.8 %	66-142	21%
Trichloroethylene	ND	30.0	31.1	104	30.0	32.5	108	3.8 %	62-137	24%
Toluene	ND	30.0	31.0	103	30.0	32.4	108	4.7 %	59-139	21%
Chlorobenzene	ND	30.0	34.0	113	30.0	35.7	119	5.2 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.3	30	107.7	70 - 130
1,2-Dichloroethane	30.5	30	101.7	70 - 130
1,4-Dichlorobenzene	31.1	30	103.7	70 - 130
Benzene	27.4	30	91.3	70 - 130
Bromoform	35	30	116.7	70 - 130
Carbon Tetrachloride	24.2	30	80.7	70 - 130
Tetrachloroethylene	29.4	30	98.0	70 - 130
Trichloroethylene	28.7	30	95.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/12/13

020529

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1202

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05810	5/16/2013	5/17/2013	5/23/2013	KLF-4-5
LN05811	5/16/2013	5/17/2013	5/23/2013	KLF-4-10
LN05812	5/16/2013	5/17/2013	5/23/2013	KLF-4-15
LN05813	5/16/2013	5/17/2013	5/23/2013	KLF-4-20
LN05814	5/16/2013	5/17/2013	5/23/2013	KLF-4-25
LN05815	5/16/2013	5/17/2013	5/23/2013	KLF-4-30
LN05816	5/16/2013	5/17/2013	5/23/2013	KLF-4-35

Compounds	MDL ug/kg	PQL ug/kg	LN05810 Amount ug/kg	LN05811 Amount ug/kg	LN05812 Amount ug/kg	LN05813 Amount ug/kg	LN05814 Amount ug/kg	LN05815 Amount ug/kg	LN05816 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05810	5/16/2013	5/17/2013	5/23/2013	KLF-4-5
LN05811	5/16/2013	5/17/2013	5/23/2013	KLF-4-10
LN05812	5/16/2013	5/17/2013	5/23/2013	KLF-4-15
LN05813	5/16/2013	5/17/2013	5/23/2013	KLF-4-20
LN05814	5/16/2013	5/17/2013	5/23/2013	KLF-4-25
LN05815	5/16/2013	5/17/2013	5/23/2013	KLF-4-30
LN05816	5/16/2013	5/17/2013	5/23/2013	KLF-4-35

Compounds	MDL ug/kg	PQL ug/kg	LN05810 Amount ug/kg	LN05811 Amount ug/kg	LN05812 Amount ug/kg	LN05813 Amount ug/kg	LN05814 Amount ug/kg	LN05815 Amount ug/kg	LN05816 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	98.0%	105.3%	111.0%	83.0%	96.7%	97.0%	84.0%
SURR: Dibromofluoromethane	80 - 120	98.0%	99.3%	100.0%	96.7%	97.0%	98.7%	99.3%
SURR: Toluene-d8	81 - 117	89.0%	83.7%	85.0%	83.7%	88.3%	86.7%	98.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05817	5/16/2013	5/17/2013	5/23/2013	KLF-4-40

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05817 Amount (ug/kg)
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
2-Butanone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
n-Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane (EDB)	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1202

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05817	5/16/2013	5/17/2013	5/23/2013	KLF-4-40

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05817 Amount (ug/kg)
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Methyl iodide (Iodomethane)	20	100.0	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene (Phenylethylene)	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene (PCE)	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene (TCE)	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	109.7%
SURR: Dibromofluoromethane	80 - 120	99.7%
SURR: Toluene-d8	81 - 117	85.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/23/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

020034

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/23/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	100.3%
SURR: Dibromofluoromethane	80 - 120	100.0%
SURR: Toluene-d8	81 - 117	94.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020035

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/23/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05810 LN LN05810 LN05811 LN05812 LN05813 LN05814 LN05815 LN05816 LN05817
LAB SAMPLE I.D.: LN05810 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	32.6	109	30.0	32.3	108	0.92 %	59-172	22%
Benzene	ND	30.0	30.6	102	30.0	30.0	100	2.0 %	66-142	21%
Trichloroethylene	ND	30.0	32.4	108	30.0	34.4	115	6.3 %	62-137	24%
Toluene	ND	30.0	28.1	93.7	30.0	28.7	95.7	2.1 %	59-139	21%
Chlorobenzene	ND	30.0	35.1	117	30.0	33.7	112	4.4 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/23/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.9	30	109.7	70 - 130
1,2-Dichloroethane	29.8	30	99.3	70 - 130
1,4-Dichlorobenzene	29.8	30	99.3	70 - 130
Benzene	26.2	30	87.3	70 - 130
Bromoform	30.5	30	101.7	70 - 130
Carbon Tetrachloride	21.4	30	71.3	70 - 130
Tetrachloroethylene	26.6	30	88.7	70 - 130
Trichloroethylene	28.2	30	94.0	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/12/13

020086

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1202

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05818	5/16/2013	5/17/2013	5/24/2013	KLF-4-45
LN05819	5/16/2013	5/17/2013	5/24/2013	KLF-4-50
LN05820	5/16/2013	5/17/2013	5/24/2013	KLF-4-55
LN05821	5/16/2013	5/17/2013	5/24/2013	KLF-4-60
LN05822	5/16/2013	5/17/2013	5/24/2013	KLF-4-65
LN05823	5/16/2013	5/17/2013	5/24/2013	KLF-4-70

Compounds	MDL ug/kg	PQL ug/kg	LN05818 Amount ug/kg	LN05819 Amount ug/kg	LN05820 Amount ug/kg	LN05821 Amount ug/kg	LN05822 Amount ug/kg	LN05823 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05818	5/16/2013	5/17/2013	5/24/2013	KLF-4-45
LN05819	5/16/2013	5/17/2013	5/24/2013	KLF-4-50
LN05820	5/16/2013	5/17/2013	5/24/2013	KLF-4-55
LN05821	5/16/2013	5/17/2013	5/24/2013	KLF-4-60
LN05822	5/16/2013	5/17/2013	5/24/2013	KLF-4-65
LN05823	5/16/2013	5/17/2013	5/24/2013	KLF-4-70

Compounds	MDL ug/kg	PQL ug/kg	LN05818 Amount ug/kg	LN05819 Amount ug/kg	LN05820 Amount ug/kg	LN05821 Amount ug/kg	LN05822 Amount ug/kg	LN05823 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper						
SURR: Bromofluorobenzene	74 - 121	106.0%	105.3%	104.3%	104.7%	103.3%	103.7%
SURR: Dibromofluoromethane	80 - 120	96.0%	93.7%	94.3%	94.7%	92.7%	93.7%
SURR: Toluene-d8	81 - 117	96.3%	96.0%	96.0%	95.3%	95.0%	93.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/24/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/16/2013	5/17/2013	5/24/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	104.7%
SURR: Dibromofluoromethane	80 - 120	97.3%
SURR: Toluene-d8	81 - 117	96.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020040

Project No: FIGUEROA PUMPING STATION

(RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/24/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05818 LN LN05818 LN05819 LN05820 LN05821 LN05822 LN05823
LAB SAMPLE I.D.: LN05818 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	23.5	78.3	30.0	24.4	81.3	3.8 %	59-172	22%
Benzene	ND	30.0	29.4	98.0	30.0	30.1	100	2.0 %	66-142	21%
Trichloroethylene	ND	30.0	31.9	106	30.0	32.3	108	1.9 %	62-137	24%
Toluene	ND	30.0	31.6	105	30.0	32.0	107	1.9 %	59-139	21%
Chlorobenzene	ND	30.0	34.7	116	30.0	35.0	117	0.86 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/24/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	33.5	30	111.7	70 - 130
1,2-Dichloroethane	32	30	106.7	70 - 130
1,4-Dichlorobenzene	32.2	30	107.3	70 - 130
Benzene	28.5	30	95.0	70 - 130
Bromoform	34.7	30	115.7	70 - 130
Carbon Tetrachloride	27.9	30	93.0	70 - 130
Tetrachloroethylene	32.3	30	107.7	70 - 130
Trichloroethylene	31.2	30	104.0	70 - 130

Analyst: B. Tiu

Reviewed by: R. Gentallen 6/19/13

020041

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1232

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05904	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-5
LN05905	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-10
LN05906	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-15
LN05907	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-20
LN05908	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-25
LN05909	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-30
LN05910	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-35

Compounds	MDL ug/kg	PQL ug/kg	LN05904 Amount ug/kg	LN05905 Amount ug/kg	LN05906 Amount ug/kg	LN05907 Amount ug/kg	LN05908 Amount ug/kg	LN05909 Amount ug/kg	LN05910 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

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ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1232**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05904	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-5
LN05905	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-10
LN05906	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-15
LN05907	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-20
LN05908	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-25
LN05909	5/20/2013	5/20/2013	5/24/2013	FIGUEROA PS, KLF-7-30
LN05910	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-35

Compounds	MDL ug/kg	PQL ug/kg	LN05904 Amount ug/kg	LN05905 Amount ug/kg	LN05906 Amount ug/kg	LN05907 Amount ug/kg	LN05908 Amount ug/kg	LN05909 Amount ug/kg	LN05910 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	105.3%	104.7%	104.0%	104.7%	104.0%	103.3%	105.0%
SURR: Dibromofluoromethane	80 - 120	93.3%	94.3%	94.0%	93.3%	93.7%	94.7%	93.7%
SURR: Toluene-d8	81 - 117	97.3%	96.7%	96.0%	97.3%	96.0%	95.3%	95.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1232

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05911	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-40
LN05912	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-45
LN05913	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-50
LN05914	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-55
LN05915	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-60
LN05916	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-65
LN05917	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05911 Amount (ug/kg)	LN05912 Amount (ug/kg)	LN05913 Amount (ug/kg)	LN05914 Amount (ug/kg)	LN05915 Amount (ug/kg)	LN05916 Amount (ug/kg)	LN05917 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1232**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05911	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-40
LN05912	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-45
LN05913	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-50
LN05914	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-55
LN05915	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-60
LN05916	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-65
LN05917	5/20/2013	5/20/2013	5/25/2013	FIGUEROA PS, KLF-7-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05911 Amount (ug/kg)	LN05912 Amount (ug/kg)	LN05913 Amount (ug/kg)	LN05914 Amount (ug/kg)	LN05915 Amount (ug/kg)	LN05916 Amount (ug/kg)	LN05917 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	104.7%	103.7%	104.0%	104.7%	104.3%	105.0%	106.0%
SURR: Dibromofluoromethane	80 - 120	93.3%	93.7%	93.7%	93.3%	92.3%	95.0%	94.7%
SURR: Toluene-d8	81 - 117	96.3%	94.7%	94.3%	94.3%	96.0%	95.3%	96.7%

Comment:

Analyst: Bryan Tiu Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1232**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/24/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1232**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/24/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	104.0%
SURR: Dibromofluoromethane	80 - 120	95.0%
SURR: Toluene-d8	81 - 117	95.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020047

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/24/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05904 LN LN05904 LN05905 LN05906 LN05907 LN05908 LN05909 LN05910 LN05911 LN05912 LN05913 LN05914 LN05
LAB SAMPLE I.D.: LN05906 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	23.8	79.3	30.0	24.5	81.7	3.0 %	59-172	22%
Benzene	ND	30.0	29.5	98.3	30.0	30.0	100	1.7 %	66-142	21%
Trichloroethylene	ND	30.0	31.8	106	30.0	32.4	108	1.9 %	62-137	24%
Toluene	ND	30.0	32.1	107	30.0	32.0	107	0.0%	59-139	21%
Chlorobenzene	ND	30.0	35.1	117	30.0	34.5	115	1.7 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/24/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	34.3	30	114.3	70 - 130
1,2-Dichloroethane	32.5	30	108.3	70 - 130
1,4-Dichlorobenzene	32	30	106.7	70 - 130
Benzene	27.4	30	91.3	70 - 130
Bromoform	35.2	30	117.3	70 - 130
Carbon Tetrachloride	26.8	30	89.3	70 - 130
Tetrachloroethylene	30.6	30	102.0	70 - 130
Trichloroethylene	31.2	30	104.0	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

020048

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1233**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05918	5/20/2013	5/20/2013	5/28/2013	KLF-6-5
LN05919	5/20/2013	5/20/2013	5/28/2013	KLF-6-10
LN05920	5/20/2013	5/20/2013	5/28/2013	KLF-6-15
LN05921	5/20/2013	5/20/2013	5/28/2013	KLF-6-20
LN05922	5/20/2013	5/20/2013	5/28/2013	KLF-6-25
LN05923	5/20/2013	5/20/2013	5/28/2013	KLF-6-30
LN05924	5/20/2013	5/20/2013	5/28/2013	KLF-6-35

Compounds	MDL ug/kg	PQL ug/kg	LN05918 Amount ug/kg	LN05919 Amount ug/kg	LN05920 Amount ug/kg	LN05921 Amount ug/kg	LN05922 Amount ug/kg	LN05923 Amount ug/kg	LN05924 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1233**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05918	5/20/2013	5/20/2013	5/28/2013	KLF-6-5
LN05919	5/20/2013	5/20/2013	5/28/2013	KLF-6-10
LN05920	5/20/2013	5/20/2013	5/28/2013	KLF-6-15
LN05921	5/20/2013	5/20/2013	5/28/2013	KLF-6-20
LN05922	5/20/2013	5/20/2013	5/28/2013	KLF-6-25
LN05923	5/20/2013	5/20/2013	5/28/2013	KLF-6-30
LN05924	5/20/2013	5/20/2013	5/28/2013	KLF-6-35

Compounds	MDL ug/kg	PQL ug/kg	LN05918 Amount ug/kg	LN05919 Amount ug/kg	LN05920 Amount ug/kg	LN05921 Amount ug/kg	LN05922 Amount ug/kg	LN05923 Amount ug/kg	LN05924 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper								
SURR: Bromofluorobenzene	74 - 121	102.7%	103.7%	102.7%	103.0%	103.3%	103.3%	104.0%
SURR: Dibromofluoromethane	80 - 120	96.3%	96.0%	93.7%	96.0%	95.0%	93.7%	93.3%
SURR: Toluene-d8	81 - 117	92.7%	93.3%	91.7%	92.7%	93.0%	93.0%	92.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1233

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05925	5/20/2013	5/20/2013	5/28/2013	KLF-6-40
LN05926	5/20/2013	5/20/2013	5/28/2013	KLF-6-45
LN05927	5/20/2013	5/20/2013	5/28/2013	KLF-6-50
LN05928	5/20/2013	5/20/2013	5/28/2013	KLF-6-55
LN05929	5/20/2013	5/20/2013	5/28/2013	KLF-6-60
LN05930	5/20/2013	5/20/2013	5/28/2013	KLF-6-65
LN05931	5/20/2013	5/20/2013	5/28/2013	KLF-6-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05925 Amount (ug/kg)	LN05926 Amount (ug/kg)	LN05927 Amount (ug/kg)	LN05928 Amount (ug/kg)	LN05929 Amount (ug/kg)	LN05930 Amount (ug/kg)	LN05931 Amount (ug/kg)
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
2-Butanone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
n-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane (EDB)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1233**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05925	5/20/2013	5/20/2013	5/28/2013	KLF-6-40
LN05926	5/20/2013	5/20/2013	5/28/2013	KLF-6-45
LN05927	5/20/2013	5/20/2013	5/28/2013	KLF-6-50
LN05928	5/20/2013	5/20/2013	5/28/2013	KLF-6-55
LN05929	5/20/2013	5/20/2013	5/28/2013	KLF-6-60
LN05930	5/20/2013	5/20/2013	5/28/2013	KLF-6-65
LN05931	5/20/2013	5/20/2013	5/28/2013	KLF-6-70

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN05925 Amount (ug/kg)	LN05926 Amount (ug/kg)	LN05927 Amount (ug/kg)	LN05928 Amount (ug/kg)	LN05929 Amount (ug/kg)	LN05930 Amount (ug/kg)	LN05931 Amount (ug/kg)
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Methyl iodide (Iodomethane)	20	100.0	nd	nd	nd	nd	nd	nd	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene (Phenylethylene)	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene (PCE)	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene (TCE)	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	103.0%	102.7%	103.3%	102.0%	102.3%	101.7%	102.3%
SURR: Dibromofluoromethane	80 - 120	93.3%	94.3%	93.3%	93.0%	93.7%	93.0%	91.7%
SURR: Toluene-d8	81 - 117	92.0%	91.0%	92.3%	90.7%	92.0%	90.3%	90.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020052

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1233**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/28/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

020053

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1233**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/28/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.3%
SURR: Dibromofluoromethane	80 - 120	96.0%
SURR: Toluene-d8	81 - 117	91.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020054

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/28/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN05918 LN LN05918 LN05919 LN05920 LN05921 LN05922 LN05923 LN05924 LN05925 LN05926 LN05927 LN05928 LN05
LAB SAMPLE I.D.: LN05922 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	23.0	76.7	30.0	23.5	78.3	2.1 %	59-172	22%
Benzene	ND	30.0	28.1	93.7	30.0	28.7	95.7	2.1 %	66-142	21%
Trichloroethylene	ND	30.0	29.7	99.0	30.0	29.9	99.7	0.70 %	62-137	24%
Toluene	ND	30.0	29.4	98.0	30.0	30.2	101	3.0 %	59-139	21%
Chlorobenzene	ND	30.0	35.2	117	30.0	35.7	119	1.7 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/28/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	30.8	30	102.7	70 - 130
1,2-Dichloroethane	33.3	30	111.0	70 - 130
1,4-Dichlorobenzene	31.2	30	104.0	70 - 130
Benzene	28.7	30	95.7	70 - 130
Bromoform	35.3	30	117.7	70 - 130
Carbon Tetrachloride	27.9	30	93.0	70 - 130
Tetrachloroethylene	28	30	93.3	70 - 130
Trichloroethylene	27.6	30	92.0	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

020355

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1234

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05932	5/20/2013	5/20/2013	5/29/2013	SOIL DRUM PROFILE

Compounds	MDL ug/kg	PQL ug/kg	LN05932 Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1234**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05932	5/20/2013	5/20/2013	5/29/2013	SOIL DRUM PROFILE

Compounds	MDL ug/kg	PQL ug/kg	LN05932 Amount ug/kg
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	101.0%
SURR: Dibromofluoromethane	80 - 120	95.7%
SURR: Toluene-d8	81 - 117	93.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020057

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1234**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/28/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

020858

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1234**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/20/2013	5/20/2013	5/28/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.3%
SURR: Dibromofluoromethane	80 - 120	96.0%
SURR: Toluene-d8	81 - 117	91.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020659

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/28/13
BATCH #: LN05932 LN05932
LAB SAMPLE I.D.: LN05922

ANALYTICAL METHOD: USEPA 8260
UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	23.0	76.7	30.0	23.5	78.3	2.1 %	59-172	22%
Benzene	ND	30.0	28.1	93.7	30.0	28.7	95.7	2.1 %	66-142	21%
Trichloroethylene	ND	30.0	29.7	99.0	30.0	29.9	99.7	0.70 %	62-137	24%
Toluene	ND	30.0	29.4	98.0	30.0	30.2	101	3.0 %	59-139	21%
Chlorobenzene	ND	30.0	35.2	117	30.0	35.7	119	1.7 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/28/13
SUPPLY SOURCE:
LOT NUMBER:
DATE OF SOURCE:

ANALYTICAL METHOD: USEPA 8260
LAB LCS I.D.: Q8087
UNIT: ug/kg

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	30.8	30	102.7	70 - 130
1,2-Dichloroethane	33.3	30	111.0	70 - 130
1,4-Dichlorobenzene	31.2	30	104.0	70 - 130
Benzene	28.7	30	95.7	70 - 130
Bromoform	35.3	30	117.7	70 - 130
Carbon Tetrachloride	27.9	30	93.0	70 - 130
Tetrachloroethylene	28	30	93.3	70 - 130
Trichloroethylene	27.6	30	92.0	70 - 130

Analyst: B. Tiu

Reviewed by: R. Gentallen 6/19/13

020060

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05576	5/13/2013	5/13/2013	5/21/2013	QCTB
LN05577	5/13/2013	5/13/2013	5/21/2013	QCEB
LN05595	5/13/2013	5/13/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05576 Amount (ug/L)	LN05577 Amount (ug/L)	LN05595 Amount (ug/L)
Acetone	0.58	2.9	nd	nd	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd	nd	nd
Benzene	0.12	0.6	nd	nd	nd
Bromobenzene	0.10	0.5	nd	nd	nd
Bromochloromethane	0.09	0.5	nd	nd	nd
Bromodichloromethane	0.10	0.5	nd	nd	nd
Bromoform	0.10	0.5	nd	nd	nd
Bromomethane	0.41	2.1	nd	nd	nd
Methyl ethyl ketone (MEK)	0.17	0.9	nd	nd	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd	nd	nd
Butylbenzene	0.21	1.1	nd	nd	nd
sec-Butylbenzene	0.21	1.1	nd	nd	nd
tert-Butylbenzene	0.18	0.9	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd	nd	nd
Carbon disulfide	0.30	1.5	nd	nd	nd
Carbon Tetrachloride	0.09	0.5	nd	nd	nd
Chlorobenzene	0.18	0.9	nd	nd	nd
Chloroethane	0.17	0.9	nd	nd	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd	nd	nd
Chloroform	0.10	0.5	nd	nd	nd
Chloromethane	0.13	0.7	nd	nd	nd
2-Chlorotoluene	0.23	1.2	nd	nd	nd
4-Chlorotoluene	0.25	1.3	nd	nd	nd
Dibromochloromethane	0.11	0.6	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd	nd	nd
1,2-Dibromoethane	0.10	0.5	nd	nd	nd
Dibromomethane	0.10	0.5	nd	nd	nd
1,2-Dichlorobenzene	0.11	0.6	nd	nd	nd
1,3-Dichlorobenzene	0.10	0.5	nd	nd	nd
1,4-Dichlorobenzene	0.15	0.8	nd	nd	nd
Dichlorodifluoromethane	0.46	2.3	nd	nd	nd
1,1-Dichloroethane	0.10	0.5	nd	nd	nd
1,2-Dichloroethane	0.13	0.7	nd	nd	nd
1,1-Dichloroethene	0.11	0.6	nd	nd	nd
cis-1,2-Dichloroethene	0.09	0.5	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.5	nd	nd	nd
1,2-Dichloropropane	0.11	0.6	nd	nd	nd
1,3-Dichloropropane	0.10	0.5	nd	nd	nd
2,2-Dichloropropane	0.12	0.6	nd	nd	nd
1,1-Dichloropropene	0.20	1.0	nd	nd	nd
cis-1,3-Dichloropropene	0.12	0.6	nd	nd	nd
trans-1,3-Dichloropropene	0.08	0.4	nd	nd	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd	nd	nd
Ethylbenzene	0.27	1.4	nd	nd	nd
Hexachlorobutadiene	0.13	0.7	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05576	5/13/2013	5/13/2013	5/21/2013	QCTB
LN05577	5/13/2013	5/13/2013	5/21/2013	QCEB
LN05595	5/13/2013	5/13/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05576 Amount (ug/L)	LN05577 Amount (ug/L)	LN05595 Amount (ug/L)
2-Hexanone	0.07	0.4	nd	nd	nd
Isopropylbenzene	0.20	1.0	nd	nd	nd
p-Isopropyltoluene	0.25	1.3	nd	nd	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd	nd	nd
Methylene chloride	0.18	0.9	nd	nd	nd
Iodomethane	0.11	0.6	nd	nd	nd
Methyl isobutyl ketone (MIBK)	0.09	0.5	nd	nd	nd
Naphthalene	0.38	1.9	nd	nd	nd
Propylbenzene	0.25	1.3	nd	nd	nd
Styrene	0.24	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
Tetrachloroethylene	0.10	0.5	nd	nd	nd
Toluene	0.29	1.5	nd	nd	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd	nd	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd	nd	nd
1,1,1-Trichloroethane	0.09	0.5	nd	nd	nd
1,1,2-Trichloroethane	0.09	0.5	nd	nd	nd
Trichloroethylene	0.16	0.8	nd	nd	nd
Trichlorofluoromethane	0.10	0.5	nd	nd	nd
1,2,3-Trichloropropane	0.14	0.7	nd	nd	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd	nd	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd	nd	nd
Vinyl acetate	0.11	0.6	nd	nd	nd
Vinyl Chloride (Chloroethene)	0.11	0.6	nd	nd	nd
m & p-Xylene	0.60	3.0	nd	nd	nd
o-Xylene	0.29	1.5	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper			
SURR: Bromofluorobenzene	80 - 130	100.0%	100.0%	99.0%
SURR: Dibromofluoromethane	80 - 120	98.0%	97.0%	97.0%
SURR: Toluene-d8	80 - 130	96.0%	96.3%	96.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020062

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Acetone	0.58	2.9	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd
Benzene	0.12	0.6	nd
Bromobenzene	0.10	0.5	nd
Bromochloromethane	0.09	0.5	nd
Bromodichloromethane	0.10	0.5	nd
Bromoform	0.10	0.5	nd
Bromomethane	0.41	2.1	nd
2-Butanone (MEK)	0.17	0.9	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd
n-Butylbenzene	0.21	1.1	nd
sec-Butylbenzene	0.21	1.1	nd
tert-Butylbenzene	0.18	0.9	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd
Carbon disulfide	0.30	1.5	nd
Carbon Tetrachloride	0.09	0.5	nd
Chlorobenzene	0.18	0.9	nd
Chloroethane	0.17	0.9	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd
Chloroform	0.10	0.5	nd
Chloromethane	0.13	0.7	nd
2-Chlorotoluene	0.23	1.2	nd
4-Chlorotoluene	0.25	1.3	nd
Dibromochloromethane	0.11	0.6	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd
1,2-Dibromoethane (EDB)	0.10	0.5	nd
Dibromomethane	0.10	0.5	nd
1,2-Dichlorobenzene	0.11	0.6	nd
1,3-Dichlorobenzene	0.10	0.5	nd
1,4-Dichlorobenzene	0.15	0.8	nd
Dichlorodifluoromethane	0.46	2.3	nd
1,1-Dichloroethane	0.10	0.5	nd
1,2-Dichloroethane	0.13	0.7	nd
1,1-Dichloroethene	0.11	0.6	nd
cis-1,2-Dichloroethene	0.09	0.5	nd
trans-1,2-Dichloroethene	0.10	0.5	nd
1,2-Dichloropropane	0.11	0.6	nd
1,3-Dichloropropane	0.10	0.5	nd
2,2-Dichloropropane	0.12	0.6	nd
1,1-Dichloropropene	0.20	1.0	nd
cis-1,3-Dichloropropene	0.12	0.6	nd
trans-1,3-Dichloropropene	0.08	0.4	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd
Ethylbenzene	0.27	1.4	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1161**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Hexachlorobutadiene	0.13	0.7	nd
2-Hexanone	0.07	0.4	nd
Isopropylbenzene	0.20	1.0	nd
p-Isopropyltoluene	0.25	1.3	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd
Methylene chloride	0.18	0.9	nd
Methyl iodide (Iodomethane)	0.11	0.6	nd
4-Methyl-2-pentanone (MIBK)	0.09	0.5	nd
Naphthalene	0.38	1.9	nd
Propylbenzene	0.25	1.3	nd
Styrene (Phenylethylene)	0.24	1.2	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd
Tetrachloroethylene	0.10	0.5	nd
Toluene	0.29	1.5	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd
1,1,1-Trichloroethane	0.09	0.5	nd
1,1,2-Trichloroethane	0.09	0.5	nd
Trichloroethylene	0.16	0.8	nd
Trichlorofluoromethane	0.10	0.5	nd
1,2,3-Trichloropropane	0.14	0.7	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd
Vinyl acetate	0.11	0.6	nd
Vinyl Chloride (chloroethene)	0.11	0.6	nd
m & p-Xylene	0.60	3.0	nd
o-Xylene	0.29	1.5	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	80 -130	100.3%
SURR: Dibromofluoromethane	80 - 120	99.0%
SURR: Toluene-d8	80 - 130	94.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020664

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: $VOC-W-77! LN05576 LN05577 LN05595
LAB SAMPLE I.D.: LN05646 UNIT: ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	32.8	109	30.0	32.6	109	0.0%	61-145	14%
Benzene	ND	30.0	30.3	101	30.0	30.0	100	1.0 %	76-127	11%
Trichloroethylene	ND	30.0	31.5	105	30.0	31.2	104	0.96 %	71-120	14%
Toluene	ND	30.0	32.5	108	30.0	32.3	108	0.0%	76-125	13%
Chlorobenzene	ND	30.0	36.3	121	30.0	36.0	120	0.83 %	75-130	13%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q5057
LOT NUMBER: UNIT: ug/L
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/L	TRUE VALUE ug/L	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.2	30	107.3	70 - 130
1,2-Dichloroethane	29.8	30	99.3	70 - 130
1,4-Dichlorobenzene	31.6	30	105.3	70 - 130
Benzene	26.6	30	88.7	70 - 130
Bromoform	31.9	30	106.3	70 - 130
Carbon Tetrachloride	23.6	30	78.7	70 - 130
Tetrachloroethylene	27.5	30	91.7	70 - 130
Trichloroethylene	27.7	30	92.3	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1171

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05646	5/14/2013	5/14/2013	5/21/2013	QCEB
LN05647	5/14/2013	5/14/2013	5/21/2013	QCTB
LN05660	5/14/2013	5/14/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05646 Amount (ug/L)	LN05647 Amount (ug/L)	LN05660 Amount (ug/L)
Acetone	0.58	2.9	nd	nd	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd	nd	nd
Benzene	0.12	0.6	nd	nd	nd
Bromobenzene	0.10	0.5	nd	nd	nd
Bromochloromethane	0.09	0.5	nd	nd	nd
Bromodichloromethane	0.10	0.5	nd	nd	nd
Bromoform	0.10	0.5	nd	nd	nd
Bromomethane	0.41	2.1	nd	nd	nd
Methyl ethyl ketone (MEK)	0.17	0.9	nd	nd	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd	nd	nd
Butylbenzene	0.21	1.1	nd	nd	nd
sec-Butylbenzene	0.21	1.1	nd	nd	nd
tert-Butylbenzene	0.18	0.9	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd	nd	nd
Carbon disulfide	0.30	1.5	nd	nd	nd
Carbon Tetrachloride	0.09	0.5	nd	nd	nd
Chlorobenzene	0.18	0.9	nd	nd	nd
Chloroethane	0.17	0.9	nd	nd	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd	nd	nd
Chloroform	0.10	0.5	nd	nd	nd
Chloromethane	0.13	0.7	nd	nd	nd
2-Chlorotoluene	0.23	1.2	nd	nd	nd
4-Chlorotoluene	0.25	1.3	nd	nd	nd
Dibromochloromethane	0.11	0.6	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd	nd	nd
1,2-Dibromoethane	0.10	0.5	nd	nd	nd
Dibromomethane	0.10	0.5	nd	nd	nd
1,2-Dichlorobenzene	0.11	0.6	nd	nd	nd
1,3-Dichlorobenzene	0.10	0.5	nd	nd	nd
1,4-Dichlorobenzene	0.15	0.8	nd	nd	nd
Dichlorodifluoromethane	0.46	2.3	nd	nd	nd
1,1-Dichloroethane	0.10	0.5	nd	nd	nd
1,2-Dichloroethane	0.13	0.7	nd	nd	nd
1,1-Dichloroethene	0.11	0.6	nd	nd	nd
cis-1,2-Dichloroethene	0.09	0.5	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.5	nd	nd	nd
1,2-Dichloropropane	0.11	0.6	nd	nd	nd
1,3-Dichloropropane	0.10	0.5	nd	nd	nd
2,2-Dichloropropane	0.12	0.6	nd	nd	nd
1,1-Dichloropropene	0.20	1.0	nd	nd	nd
cis-1,3-Dichloropropene	0.12	0.6	nd	nd	nd
trans-1,3-Dichloropropene	0.08	0.4	nd	nd	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd	nd	nd
Ethylbenzene	0.27	1.4	nd	nd	nd
Hexachlorobutadiene	0.13	0.7	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1171

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05646	5/14/2013	5/14/2013	5/21/2013	QCEB
LN05647	5/14/2013	5/14/2013	5/21/2013	QCTB
LN05660	5/14/2013	5/14/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05646 Amount (ug/L)	LN05647 Amount (ug/L)	LN05660 Amount (ug/L)
2-Hexanone	0.07	0.4	nd	nd	nd
Isopropylbenzene	0.20	1.0	nd	nd	nd
p-Isopropyltoluene	0.25	1.3	nd	nd	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd	nd	nd
Methylene chloride	0.18	0.9	nd	nd	nd
Iodomethane	0.11	0.6	nd	nd	nd
Methyl isobutyl ketone (MIBK)	0.09	0.5	nd	nd	nd
Naphthalene	0.38	1.9	nd	nd	nd
Propylbenzene	0.25	1.3	nd	nd	nd
Styrene	0.24	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
Tetrachloroethylene	0.10	0.5	nd	nd	nd
Toluene	0.29	1.5	nd	nd	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd	nd	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd	nd	nd
1,1,1-Trichloroethane	0.09	0.5	nd	nd	nd
1,1,2-Trichloroethane	0.09	0.5	nd	nd	nd
Trichloroethylene	0.16	0.8	nd	nd	nd
Trichlorofluoromethane	0.10	0.5	nd	nd	nd
1,2,3-Trichloropropane	0.14	0.7	nd	nd	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd	nd	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd	nd	nd
Vinyl acetate	0.11	0.6	nd	nd	nd
Vinyl Chloride (Chloroethene)	0.11	0.6	nd	nd	nd
m & p-Xylene	0.60	3.0	nd	nd	nd
o-Xylene	0.29	1.5	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper			
SURR: Bromofluorobenzene	80 - 130	99.3%	99.7%	100.0%
SURR: Dibromofluoromethane	80 - 120	97.7%	98.0%	96.7%
SURR: Toluene-d8	80 - 130	95.3%	95.0%	95.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020067

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1171

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Acetone	0.58	2.9	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd
Benzene	0.12	0.6	nd
Bromobenzene	0.10	0.5	nd
Bromochloromethane	0.09	0.5	nd
Bromodichloromethane	0.10	0.5	nd
Bromoform	0.10	0.5	nd
Bromomethane	0.41	2.1	nd
2-Butanone (MEK)	0.17	0.9	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd
n-Butylbenzene	0.21	1.1	nd
sec-Butylbenzene	0.21	1.1	nd
tert-Butylbenzene	0.18	0.9	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd
Carbon disulfide	0.30	1.5	nd
Carbon Tetrachloride	0.09	0.5	nd
Chlorobenzene	0.18	0.9	nd
Chloroethane	0.17	0.9	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd
Chloroform	0.10	0.5	nd
Chloromethane	0.13	0.7	nd
2-Chlorotoluene	0.23	1.2	nd
4-Chlorotoluene	0.25	1.3	nd
Dibromochloromethane	0.11	0.6	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd
1,2-Dibromoethane (EDB)	0.10	0.5	nd
Dibromomethane	0.10	0.5	nd
1,2-Dichlorobenzene	0.11	0.6	nd
1,3-Dichlorobenzene	0.10	0.5	nd
1,4-Dichlorobenzene	0.15	0.8	nd
Dichlorodifluoromethane	0.46	2.3	nd
1,1-Dichloroethane	0.10	0.5	nd
1,2-Dichloroethane	0.13	0.7	nd
1,1-Dichloroethene	0.11	0.6	nd
cis-1,2-Dichloroethene	0.09	0.5	nd
trans-1,2-Dichloroethene	0.10	0.5	nd
1,2-Dichloropropane	0.11	0.6	nd
1,3-Dichloropropane	0.10	0.5	nd
2,2-Dichloropropane	0.12	0.6	nd
1,1-Dichloropropene	0.20	1.0	nd
cis-1,3-Dichloropropene	0.12	0.6	nd
trans-1,3-Dichloropropene	0.08	0.4	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd
Ethylbenzene	0.27	1.4	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1171**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Hexachlorobutadiene	0.13	0.7	nd
2-Hexanone	0.07	0.4	nd
Isopropylbenzene	0.20	1.0	nd
p-Isopropyltoluene	0.25	1.3	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd
Methylene chloride	0.18	0.9	nd
Methyl iodide (Iodomethane)	0.11	0.6	nd
4-Methyl-2-pentanone (MIBK)	0.09	0.5	nd
Naphthalene	0.38	1.9	nd
Propylbenzene	0.25	1.3	nd
Styrene (Phenylethylene)	0.24	1.2	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd
Tetrachloroethylene	0.10	0.5	nd
Toluene	0.29	1.5	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd
1,1,1-Trichloroethane	0.09	0.5	nd
1,1,2-Trichloroethane	0.09	0.5	nd
Trichloroethylene	0.16	0.8	nd
Trichlorofluoromethane	0.10	0.5	nd
1,2,3-Trichloropropane	0.14	0.7	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd
Vinyl acetate	0.11	0.6	nd
Vinyl Chloride (chloroethene)	0.11	0.6	nd
m & p-Xylene	0.60	3.0	nd
o-Xylene	0.29	1.5	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	80 -130	100.3%
SURR: Dibromofluoromethane	80 - 120	99.0%
SURR: Toluene-d8	80 - 130	94.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020669

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: $VOC-W-77! LN05646 LN05647 LN05660
LAB SAMPLE I.D.: LN05646 UNIT: ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	32.8	109	30.0	32.6	109	0.0%	61-145	14%
Benzene	ND	30.0	30.3	101	30.0	30.0	100	1.0 %	76-127	11%
Trichloroethylene	ND	30.0	31.5	105	30.0	31.2	104	0.96 %	71-120	14%
Toluene	ND	30.0	32.5	108	30.0	32.3	108	0.0%	76-125	13%
Chlorobenzene	ND	30.0	36.3	121	30.0	36.0	120	0.83 %	75-130	13%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/L
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/L	TRUE VALUE ug/L	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.2	30	107.3	70 - 130
1,2-Dichloroethane	29.8	30	99.3	70 - 130
1,4-Dichlorobenzene	31.6	30	105.3	70 - 130
Benzene	26.6	30	88.7	70 - 130
Bromoform	31.9	30	106.3	70 - 130
Carbon Tetrachloride	23.6	30	78.7	70 - 130
Tetrachloroethylene	27.5	30	91.7	70 - 130
Trichloroethylene	27.7	30	92.3	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

020670

ENVIRONMENTAL LABORATORY DATA REPORT COC 13-1192

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05738	5/15/2013	5/15/2013	5/21/2013	QCTB
LN05739	5/15/2013	5/15/2013	5/21/2013	QCEB
LN05752	5/15/2013	5/15/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05738 Amount (ug/L)	LN05739 Amount (ug/L)	LN05752 Amount (ug/L)
Acetone	0.58	2.9	nd	nd	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd	nd	nd
Benzene	0.12	0.6	nd	nd	nd
Bromobenzene	0.10	0.5	nd	nd	nd
Bromochloromethane	0.09	0.5	nd	nd	nd
Bromodichloromethane	0.10	0.5	nd	nd	nd
Bromoform	0.10	0.5	nd	nd	nd
Bromomethane	0.41	2.1	nd	nd	nd
Methyl ethyl ketone (MEK)	0.17	0.9	nd	nd	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd	nd	nd
Butylbenzene	0.21	1.1	nd	nd	nd
sec-Butylbenzene	0.21	1.1	nd	nd	nd
tert-Butylbenzene	0.18	0.9	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd	nd	nd
Carbon disulfide	0.30	1.5	nd	nd	nd
Carbon Tetrachloride	0.09	0.5	nd	nd	nd
Chlorobenzene	0.18	0.9	nd	nd	nd
Chloroethane	0.17	0.9	nd	nd	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd	nd	nd
Chloroform	0.10	0.5	nd	nd	nd
Chloromethane	0.13	0.7	nd	nd	nd
2-Chlorotoluene	0.23	1.2	nd	nd	nd
4-Chlorotoluene	0.25	1.3	nd	nd	nd
Dibromochloromethane	0.11	0.6	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd	nd	nd
1,2-Dibromoethane	0.10	0.5	nd	nd	nd
Dibromomethane	0.10	0.5	nd	nd	nd
1,2-Dichlorobenzene	0.11	0.6	nd	nd	nd
1,3-Dichlorobenzene	0.10	0.5	nd	nd	nd
1,4-Dichlorobenzene	0.15	0.8	nd	nd	nd
Dichlorodifluoromethane	0.46	2.3	nd	nd	nd
1,1-Dichloroethane	0.10	0.5	nd	nd	nd
1,2-Dichloroethane	0.13	0.7	nd	nd	nd
1,1-Dichloroethene	0.11	0.6	nd	nd	nd
cis-1,2-Dichloroethene	0.09	0.5	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.5	nd	nd	nd
1,2-Dichloropropane	0.11	0.6	nd	nd	nd
1,3-Dichloropropane	0.10	0.5	nd	nd	nd
2,2-Dichloropropane	0.12	0.6	nd	nd	nd
1,1-Dichloropropene	0.20	1.0	nd	nd	nd
cis-1,3-Dichloropropene	0.12	0.6	nd	nd	nd
trans-1,3-Dichloropropene	0.08	0.4	nd	nd	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd	nd	nd
Ethylbenzene	0.27	1.4	nd	nd	nd
Hexachlorobutadiene	0.13	0.7	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05738	5/15/2013	5/15/2013	5/21/2013	QCTB
LN05739	5/15/2013	5/15/2013	5/21/2013	QCEB
LN05752	5/15/2013	5/15/2013	5/21/2013	QCFB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05738 Amount (ug/L)	LN05739 Amount (ug/L)	LN05752 Amount (ug/L)
2-Hexanone	0.07	0.4	nd	nd	nd
Isopropylbenzene	0.20	1.0	nd	nd	nd
p-Isopropyltoluene	0.25	1.3	nd	nd	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd	nd	nd
Methylene chloride	0.18	0.9	nd	nd	nd
Iodomethane	0.11	0.6	nd	nd	nd
Methyl isobutyl ketone (MIBK)	0.09	0.5	nd	nd	nd
Naphthalene	0.38	1.9	nd	nd	nd
Propylbenzene	0.25	1.3	nd	nd	nd
Styrene	0.24	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
Tetrachloroethylene	0.10	0.5	nd	nd	nd
Toluene	0.29	1.5	nd	nd	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd	nd	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd	nd	nd
1,1,1-Trichloroethane	0.09	0.5	nd	nd	nd
1,1,2-Trichloroethane	0.09	0.5	nd	nd	nd
Trichloroethylene	0.16	0.8	nd	nd	nd
Trichlorofluoromethane	0.10	0.5	nd	nd	nd
1,2,3-Trichloropropane	0.14	0.7	nd	nd	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd	nd	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd	nd	nd
Vinyl acetate	0.11	0.6	nd	nd	nd
Vinyl Chloride (Chloroethene)	0.11	0.6	nd	nd	nd
m & p-Xylene	0.60	3.0	nd	nd	nd
o-Xylene	0.29	1.5	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper			
SURR: Bromofluorobenzene	80 - 130	100.0%	100.3%	100.0%
SURR: Dibromofluoromethane	80 - 120	98.0%	97.3%	97.7%
SURR: Toluene-d8	80 - 130	97.0%	97.0%	97.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Acetone	0.58	2.9	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd
Benzene	0.12	0.6	nd
Bromobenzene	0.10	0.5	nd
Bromochloromethane	0.09	0.5	nd
Bromodichloromethane	0.10	0.5	nd
Bromoform	0.10	0.5	nd
Bromomethane	0.41	2.1	nd
2-Butanone (MEK)	0.17	0.9	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd
n-Butylbenzene	0.21	1.1	nd
sec-Butylbenzene	0.21	1.1	nd
tert-Butylbenzene	0.18	0.9	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd
Carbon disulfide	0.30	1.5	nd
Carbon Tetrachloride	0.09	0.5	nd
Chlorobenzene	0.18	0.9	nd
Chloroethane	0.17	0.9	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd
Chloroform	0.10	0.5	nd
Chloromethane	0.13	0.7	nd
2-Chlorotoluene	0.23	1.2	nd
4-Chlorotoluene	0.25	1.3	nd
Dibromochloromethane	0.11	0.6	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd
1,2-Dibromoethane (EDB)	0.10	0.5	nd
Dibromomethane	0.10	0.5	nd
1,2-Dichlorobenzene	0.11	0.6	nd
1,3-Dichlorobenzene	0.10	0.5	nd
1,4-Dichlorobenzene	0.15	0.8	nd
Dichlorodifluoromethane	0.46	2.3	nd
1,1-Dichloroethane	0.10	0.5	nd
1,2-Dichloroethane	0.13	0.7	nd
1,1-Dichloroethene	0.11	0.6	nd
cis-1,2-Dichloroethene	0.09	0.5	nd
trans-1,2-Dichloroethene	0.10	0.5	nd
1,2-Dichloropropane	0.11	0.6	nd
1,3-Dichloropropane	0.10	0.5	nd
2,2-Dichloropropane	0.12	0.6	nd
1,1-Dichloropropene	0.20	1.0	nd
cis-1,3-Dichloropropene	0.12	0.6	nd
trans-1,3-Dichloropropene	0.08	0.4	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd
Ethylbenzene	0.27	1.4	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1192**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/14/2013	5/14/2013	5/21/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Hexachlorobutadiene	0.13	0.7	nd
2-Hexanone	0.07	0.4	nd
Isopropylbenzene	0.20	1.0	nd
p-Isopropyltoluene	0.25	1.3	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd
Methylene chloride	0.18	0.9	nd
Methyl iodide (Iodomethane)	0.11	0.6	nd
4-Methyl-2-pentanone (MIBK)	0.09	0.5	nd
Naphthalene	0.38	1.9	nd
Propylbenzene	0.25	1.3	nd
Styrene (Phenylethylene)	0.24	1.2	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd
Tetrachloroethylene	0.10	0.5	nd
Toluene	0.29	1.5	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd
1,1,1-Trichloroethane	0.09	0.5	nd
1,1,2-Trichloroethane	0.09	0.5	nd
Trichloroethylene	0.16	0.8	nd
Trichlorofluoromethane	0.10	0.5	nd
1,2,3-Trichloropropane	0.14	0.7	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd
Vinyl acetate	0.11	0.6	nd
Vinyl Chloride (chloroethene)	0.11	0.6	nd
m & p-Xylene	0.60	3.0	nd
o-Xylene	0.29	1.5	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	80 -130	100.3%
SURR: Dibromofluoromethane	80 - 120	99.0%
SURR: Toluene-d8	80 - 130	94.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020074

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: $VOC-W-77! LN05738 LN05739 LN05752
LAB SAMPLE I.D.: LN05646 UNIT: ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	32.8	109	30.0	32.6	109	0.0%	61-145	14%
Benzene	ND	30.0	30.3	101	30.0	30.0	100	1.0 %	76-127	11%
Trichloroethylene	ND	30.0	31.5	105	30.0	31.2	104	0.96 %	71-120	14%
Toluene	ND	30.0	32.5	108	30.0	32.3	108	0.0%	76-125	13%
Chlorobenzene	ND	30.0	36.3	121	30.0	36.0	120	0.83 %	75-130	13%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/21/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/L
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/L	TRUE VALUE ug/L	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.2	30	107.3	70 - 130
1,2-Dichloroethane	29.8	30	99.3	70 - 130
1,4-Dichlorobenzene	31.6	30	105.3	70 - 130
Benzene	26.6	30	88.7	70 - 130
Bromoform	31.9	30	106.3	70 - 130
Carbon Tetrachloride	23.6	30	78.7	70 - 130
Tetrachloroethylene	27.5	30	91.7	70 - 130
Trichloroethylene	27.7	30	92.3	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

020675

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05824	5/16/2013	5/17/2013	5/22/2013	QCFB
LN05825	5/16/2013	5/17/2013	5/22/2013	QCEB
LN05826	5/16/2013	5/17/2013	5/22/2013	QCTB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05824 Amount (ug/L)	LN05825 Amount (ug/L)	LN05826 Amount (ug/L)
Acetone	0.58	2.9	nd	nd	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd	nd	nd
Benzene	0.12	0.6	nd	nd	nd
Bromobenzene	0.10	0.5	nd	nd	nd
Bromochloromethane	0.09	0.5	nd	nd	nd
Bromodichloromethane	0.10	0.5	nd	nd	nd
Bromoform	0.10	0.5	nd	nd	nd
Bromomethane	0.41	2.1	nd	nd	nd
Methyl ethyl ketone (MEK)	0.17	0.9	nd	nd	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd	nd	nd
Butylbenzene	0.21	1.1	nd	nd	nd
sec-Butylbenzene	0.21	1.1	nd	nd	nd
tert-Butylbenzene	0.18	0.9	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd	nd	nd
Carbon disulfide	0.30	1.5	nd	nd	nd
Carbon Tetrachloride	0.09	0.5	nd	nd	nd
Chlorobenzene	0.18	0.9	nd	nd	nd
Chloroethane	0.17	0.9	nd	nd	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd	nd	nd
Chloroform	0.10	0.5	nd	nd	nd
Chloromethane	0.13	0.7	nd	nd	nd
2-Chlorotoluene	0.23	1.2	nd	nd	nd
4-Chlorotoluene	0.25	1.3	nd	nd	nd
Dibromochloromethane	0.11	0.6	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd	nd	nd
1,2-Dibromoethane	0.10	0.5	nd	nd	nd
Dibromomethane	0.10	0.5	nd	nd	nd
1,2-Dichlorobenzene	0.11	0.6	nd	nd	nd
1,3-Dichlorobenzene	0.10	0.5	nd	nd	nd
1,4-Dichlorobenzene	0.15	0.8	nd	nd	nd
Dichlorodifluoromethane	0.46	2.3	nd	nd	nd
1,1-Dichloroethane	0.10	0.5	nd	nd	nd
1,2-Dichloroethane	0.13	0.7	nd	nd	nd
1,1-Dichloroethene	0.11	0.6	nd	nd	nd
cis-1,2-Dichloroethene	0.09	0.5	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.5	nd	nd	nd
1,2-Dichloropropane	0.11	0.6	nd	nd	nd
1,3-Dichloropropane	0.10	0.5	nd	nd	nd
2,2-Dichloropropane	0.12	0.6	nd	nd	nd
1,1-Dichloropropene	0.20	1.0	nd	nd	nd
cis-1,3-Dichloropropene	0.12	0.6	nd	nd	nd
trans-1,3-Dichloropropene	0.08	0.4	nd	nd	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd	nd	nd
Ethylbenzene	0.27	1.4	nd	nd	nd
Hexachlorobutadiene	0.13	0.7	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05824	5/16/2013	5/17/2013	5/22/2013	QCFB
LN05825	5/16/2013	5/17/2013	5/22/2013	QCEB
LN05826	5/16/2013	5/17/2013	5/22/2013	QCTB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05824 Amount (ug/L)	LN05825 Amount (ug/L)	LN05826 Amount (ug/L)
2-Hexanone	0.07	0.4	nd	nd	nd
Isopropylbenzene	0.20	1.0	nd	nd	nd
p-Isopropyltoluene	0.25	1.3	nd	nd	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd	nd	nd
Methylene chloride	0.18	0.9	nd	nd	nd
Iodomethane	0.11	0.6	nd	nd	nd
Methyl isobutyl ketone (MIBK)	0.09	0.5	nd	nd	nd
Naphthalene	0.38	1.9	nd	nd	nd
Propylbenzene	0.25	1.3	nd	nd	nd
Styrene	0.24	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
Tetrachloroethylene	0.10	0.5	nd	nd	nd
Toluene	0.29	1.5	nd	nd	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd	nd	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd	nd	nd
1,1,1-Trichloroethane	0.09	0.5	nd	nd	nd
1,1,2-Trichloroethane	0.09	0.5	nd	nd	nd
Trichloroethylene	0.16	0.8	nd	nd	nd
Trichlorofluoromethane	0.10	0.5	nd	nd	nd
1,2,3-Trichloropropane	0.14	0.7	nd	nd	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd	nd	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd	nd	nd
Vinyl acetate	0.11	0.6	nd	nd	nd
Vinyl Chloride (Chloroethene)	0.11	0.6	nd	nd	nd
m & p-Xylene	0.60	3.0	nd	nd	nd
o-Xylene	0.29	1.5	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper			
SURR: Bromofluorobenzene	80 - 130	100.3%	97.7%	100.3%
SURR: Dibromofluoromethane	80 - 120	99.3%	99.7%	100.3%
SURR: Toluene-d8	80 - 130	96.7%	96.0%	95.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020577

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/10/2013	5/14/2013	5/22/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Acetone	0.58	2.9	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd
Benzene	0.12	0.6	nd
Bromobenzene	0.10	0.5	nd
Bromochloromethane	0.09	0.5	nd
Bromodichloromethane	0.10	0.5	nd
Bromoform	0.10	0.5	nd
Bromomethane	0.41	2.1	nd
2-Butanone (MEK)	0.17	0.9	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd
n-Butylbenzene	0.21	1.1	nd
sec-Butylbenzene	0.21	1.1	nd
tert-Butylbenzene	0.18	0.9	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd
Carbon disulfide	0.30	1.5	nd
Carbon Tetrachloride	0.09	0.5	nd
Chlorobenzene	0.18	0.9	nd
Chloroethane	0.17	0.9	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd
Chloroform	0.10	0.5	nd
Chloromethane	0.13	0.7	nd
2-Chlorotoluene	0.23	1.2	nd
4-Chlorotoluene	0.25	1.3	nd
Dibromochloromethane	0.11	0.6	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd
1,2-Dibromoethane (EDB)	0.10	0.5	nd
Dibromomethane	0.10	0.5	nd
1,2-Dichlorobenzene	0.11	0.6	nd
1,3-Dichlorobenzene	0.10	0.5	nd
1,4-Dichlorobenzene	0.15	0.8	nd
Dichlorodifluoromethane	0.46	2.3	nd
1,1-Dichloroethane	0.10	0.5	nd
1,2-Dichloroethane	0.13	0.7	nd
1,1-Dichloroethene	0.11	0.6	nd
cis-1,2-Dichloroethene	0.09	0.5	nd
trans-1,2-Dichloroethene	0.10	0.5	nd
1,2-Dichloropropane	0.11	0.6	nd
1,3-Dichloropropane	0.10	0.5	nd
2,2-Dichloropropane	0.12	0.6	nd
1,1-Dichloropropene	0.20	1.0	nd
cis-1,3-Dichloropropene	0.12	0.6	nd
trans-1,3-Dichloropropene	0.08	0.4	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd
Ethylbenzene	0.27	1.4	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1202**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/10/2013	5/14/2013	5/22/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Hexachlorobutadiene	0.13	0.7	nd
2-Hexanone	0.07	0.4	nd
Isopropylbenzene	0.20	1.0	nd
p-Isopropyltoluene	0.25	1.3	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd
Methylene chloride	0.18	0.9	nd
Methyl iodide (Iodomethane)	0.11	0.6	nd
4-Methyl-2-pentanone (MIBK)	0.09	0.5	nd
Naphthalene	0.38	1.9	nd
Propylbenzene	0.25	1.3	nd
Styrene (Phenylethylene)	0.24	1.2	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd
Tetrachloroethylene	0.10	0.5	nd
Toluene	0.29	1.5	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd
1,1,1-Trichloroethane	0.09	0.5	nd
1,1,2-Trichloroethane	0.09	0.5	nd
Trichloroethylene	0.16	0.8	nd
Trichlorofluoromethane	0.10	0.5	nd
1,2,3-Trichloropropane	0.14	0.7	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd
Vinyl acetate	0.11	0.6	nd
Vinyl Chloride (chloroethene)	0.11	0.6	nd
m & p-Xylene	0.60	3.0	nd
o-Xylene	0.29	1.5	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	80 -130	104.7%
SURR: Dibromofluoromethane	80 - 120	101.0%
SURR: Toluene-d8	80 - 130	96.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020379

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: $VOC-W-77! LN05824 LN05825 LN05826
LAB SAMPLE I.D.: LN05754 UNIT: ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	28.5	95.0	30.0	31.4	105	10 %	61-145	14%
Benzene	0.714	30.0	30.1	98.0	30.0	32.0	104	5.9 %	76-127	11%
Trichloroethylene	ND	30.0	30.7	102	30.0	32.0	107	4.8 %	71-120	14%
Toluene	ND	30.0	30.8	103	30.0	31.9	106	2.9 %	76-125	13%
Chlorobenzene	ND	30.0	32.9	110	30.0	33.2	111	0.90 %	75-130	13%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/L
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/L	TRUE VALUE ug/L	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.3	30	107.7	70 - 130
1,2-Dichloroethane	30.3	30	101.0	70 - 130
1,4-Dichlorobenzene	30.6	30	102.0	70 - 130
Benzene	27.6	30	92.0	70 - 130
Bromoform	35.3	30	117.7	70 - 130
Carbon Tetrachloride	24.8	30	82.7	70 - 130
Tetrachloroethylene	29.9	30	99.7	70 - 130
Trichloroethylene	29	30	96.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 6/19/13

020080

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1231**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05901	5/20/2013	5/20/2013	5/22/2013	QCEB
LN05902	5/20/2013	5/20/2013	5/22/2013	QCFB
LN05903	5/20/2013	5/20/2013	5/22/2013	QCTB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05901 Amount (ug/L)	LN05902 Amount (ug/L)	LN05903 Amount (ug/L)
Acetone	0.58	2.9	nd	nd	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd	nd	nd
Benzene	0.12	0.6	nd	nd	nd
Bromobenzene	0.10	0.5	nd	nd	nd
Bromochloromethane	0.09	0.5	nd	nd	nd
Bromodichloromethane	0.10	0.5	nd	nd	nd
Bromoform	0.10	0.5	nd	nd	nd
Bromomethane	0.41	2.1	nd	nd	nd
Methyl ethyl ketone (MEK)	0.17	0.9	nd	nd	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd	nd	nd
Butylbenzene	0.21	1.1	nd	nd	nd
sec-Butylbenzene	0.21	1.1	nd	nd	nd
tert-Butylbenzene	0.18	0.9	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd	nd	nd
Carbon disulfide	0.30	1.5	nd	nd	nd
Carbon Tetrachloride	0.09	0.5	nd	nd	nd
Chlorobenzene	0.18	0.9	nd	nd	nd
Chloroethane	0.17	0.9	nd	nd	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd	nd	nd
Chloroform	0.10	0.5	nd	nd	nd
Chloromethane	0.13	0.7	nd	nd	nd
2-Chlorotoluene	0.23	1.2	nd	nd	nd
4-Chlorotoluene	0.25	1.3	nd	nd	nd
Dibromochloromethane	0.11	0.6	nd	nd	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd	nd	nd
1,2-Dibromoethane	0.10	0.5	nd	nd	nd
Dibromomethane	0.10	0.5	nd	nd	nd
1,2-Dichlorobenzene	0.11	0.6	nd	nd	nd
1,3-Dichlorobenzene	0.10	0.5	nd	nd	nd
1,4-Dichlorobenzene	0.15	0.8	nd	nd	nd
Dichlorodifluoromethane	0.46	2.3	nd	nd	nd
1,1-Dichloroethane	0.10	0.5	nd	nd	nd
1,2-Dichloroethane	0.13	0.7	nd	nd	nd
1,1-Dichloroethene	0.11	0.6	nd	nd	nd
cis-1,2-Dichloroethene	0.09	0.5	nd	nd	nd
trans-1,2-Dichloroethene	0.10	0.5	nd	nd	nd
1,2-Dichloropropane	0.11	0.6	nd	nd	nd
1,3-Dichloropropane	0.10	0.5	nd	nd	nd
2,2-Dichloropropane	0.12	0.6	nd	nd	nd
1,1-Dichloropropene	0.20	1.0	nd	nd	nd
cis-1,3-Dichloropropene	0.12	0.6	nd	nd	nd
trans-1,3-Dichloropropene	0.08	0.4	nd	nd	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd	nd	nd
Ethylbenzene	0.27	1.4	nd	nd	nd
Hexachlorobutadiene	0.13	0.7	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1231**

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN05901	5/20/2013	5/20/2013	5/22/2013	QCEB
LN05902	5/20/2013	5/20/2013	5/22/2013	QCFB
LN05903	5/20/2013	5/20/2013	5/22/2013	QCTB

Compounds	MDL (ug/L)	PQL (ug/L)	LN05901 Amount (ug/L)	LN05902 Amount (ug/L)	LN05903 Amount (ug/L)
2-Hexanone	0.07	0.4	nd	nd	nd
Isopropylbenzene	0.20	1.0	nd	nd	nd
p-Isopropyltoluene	0.25	1.3	nd	nd	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd	nd	nd
Methylene chloride	0.18	0.9	nd	nd	nd
Iodomethane	0.11	0.6	nd	nd	nd
Methyl isobutyl ketone (MIBK)	0.09	0.5	nd	nd	nd
Naphthalene	0.38	1.9	nd	nd	nd
Propylbenzene	0.25	1.3	nd	nd	nd
Styrene	0.24	1.2	nd	nd	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd	nd	nd
Tetrachloroethylene	0.10	0.5	nd	nd	nd
Toluene	0.29	1.5	nd	nd	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd	nd	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd	nd	nd
1,1,1-Trichloroethane	0.09	0.5	nd	nd	nd
1,1,2-Trichloroethane	0.09	0.5	nd	nd	nd
Trichloroethylene	0.16	0.8	nd	nd	nd
Trichlorofluoromethane	0.10	0.5	nd	nd	nd
1,2,3-Trichloropropane	0.14	0.7	nd	nd	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd	nd	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd	nd	nd
Vinyl acetate	0.11	0.6	nd	nd	nd
Vinyl Chloride (Chloroethene)	0.11	0.6	nd	nd	nd
m & p-Xylene	0.60	3.0	nd	nd	nd
o-Xylene	0.29	1.5	nd	nd	nd

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL

nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper			
SURR: Bromofluorobenzene	80 - 130	100.7%	99.0%	100.3%
SURR: Dibromofluoromethane	80 - 120	100.3%	99.3%	99.7%
SURR: Toluene-d8	80 - 130	95.3%	95.0%	96.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020082

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1231**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/10/2013	5/14/2013	5/22/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Acetone	0.58	2.9	nd
tert-Amyl methyl ether (TAME)	0.08	0.4	nd
Benzene	0.12	0.6	nd
Bromobenzene	0.10	0.5	nd
Bromochloromethane	0.09	0.5	nd
Bromodichloromethane	0.10	0.5	nd
Bromoform	0.10	0.5	nd
Bromomethane	0.41	2.1	nd
2-Butanone (MEK)	0.17	0.9	nd
tert-Butyl alcohol (TBA)	8.4	42.0	nd
n-Butylbenzene	0.21	1.1	nd
sec-Butylbenzene	0.21	1.1	nd
tert-Butylbenzene	0.18	0.9	nd
tert-Butyl ethyl ether (ETBE)	0.14	0.7	nd
Carbon disulfide	0.30	1.5	nd
Carbon Tetrachloride	0.09	0.5	nd
Chlorobenzene	0.18	0.9	nd
Chloroethane	0.17	0.9	nd
2-Chloroethyl vinyl ether	0.25	1.3	nd
Chloroform	0.10	0.5	nd
Chloromethane	0.13	0.7	nd
2-Chlorotoluene	0.23	1.2	nd
4-Chlorotoluene	0.25	1.3	nd
Dibromochloromethane	0.11	0.6	nd
1,2-Dibromo-3-chloropropane	0.13	0.7	nd
1,2-Dibromoethane (EDB)	0.10	0.5	nd
Dibromomethane	0.10	0.5	nd
1,2-Dichlorobenzene	0.11	0.6	nd
1,3-Dichlorobenzene	0.10	0.5	nd
1,4-Dichlorobenzene	0.15	0.8	nd
Dichlorodifluoromethane	0.46	2.3	nd
1,1-Dichloroethane	0.10	0.5	nd
1,2-Dichloroethane	0.13	0.7	nd
1,1-Dichloroethene	0.11	0.6	nd
cis-1,2-Dichloroethene	0.09	0.5	nd
trans-1,2-Dichloroethene	0.10	0.5	nd
1,2-Dichloropropane	0.11	0.6	nd
1,3-Dichloropropane	0.10	0.5	nd
2,2-Dichloropropane	0.12	0.6	nd
1,1-Dichloropropene	0.20	1.0	nd
cis-1,3-Dichloropropene	0.12	0.6	nd
trans-1,3-Dichloropropene	0.08	0.4	nd
Diisopropyl ether (DIPE)	0.15	0.8	nd
Ethylbenzene	0.27	1.4	nd

ENVIRONMENTAL LABORATORY DATA REPORT **COC 13-1231**

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: FIGUEROA PUMPING STATION Sample Matrix: Water

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/10/2013	5/14/2013	5/22/2013	Method Blank

Compounds	MDL (ug/L)	PQL (ug/L)	Blank Amount ug/L
Hexachlorobutadiene	0.13	0.7	nd
2-Hexanone	0.07	0.4	nd
Isopropylbenzene	0.20	1.0	nd
p-Isopropyltoluene	0.25	1.3	nd
Methyl-t-butyl ether (MTBE)	0.14	0.7	nd
Methylene chloride	0.18	0.9	nd
Methyl iodide (Iodomethane)	0.11	0.6	nd
4-Methyl-2-pentanone (MIBK)	0.09	0.5	nd
Naphthalene	0.38	1.9	nd
Propylbenzene	0.25	1.3	nd
Styrene (Phenylethylene)	0.24	1.2	nd
1,1,1,2-Tetrachloroethane	0.10	0.5	nd
1,1,2,2-Tetrachloroethane	0.10	0.5	nd
Tetrachloroethylene	0.10	0.5	nd
Toluene	0.29	1.5	nd
1,2,3-Trichlorobenzene	0.17	0.9	nd
1,2,4-Trichlorobenzene	0.12	0.6	nd
1,1,1-Trichloroethane	0.09	0.5	nd
1,1,2-Trichloroethane	0.09	0.5	nd
Trichloroethylene	0.16	0.8	nd
Trichlorofluoromethane	0.10	0.5	nd
1,2,3-Trichloropropane	0.14	0.7	nd
1,2,4-Trimethylbenzene	0.17	0.9	nd
1,3,5-Trimethylbenzene	0.26	1.3	nd
Vinyl acetate	0.11	0.6	nd
Vinyl Chloride (chloroethene)	0.11	0.6	nd
m & p-Xylene	0.60	3.0	nd
o-Xylene	0.29	1.5	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)
J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	80 -130	104.7%
SURR: Dibromofluoromethane	80 - 120	101.0%
SURR: Toluene-d8	80 - 130	96.0%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

020084

Project No: FIGUEROA PUMPING STATION (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: $VOC-W-77! LN05901 LN05902 LN05903
LAB SAMPLE I.D.: LN05754 UNIT: ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	28.5	95.0	30.0	31.4	105	10 %	61-145	14%
Benzene	0.714	30.0	30.1	98.0	30.0	32.0	104	5.9 %	76-127	11%
Trichloroethylene	ND	30.0	30.7	102	30.0	32.0	107	4.8 %	71-120	14%
Toluene	ND	30.0	30.8	103	30.0	31.9	106	2.9 %	76-125	13%
Chlorobenzene	ND	30.0	32.9	110	30.0	33.2	111	0.90 %	75-130	13%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 5/22/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/L
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/L	TRUE VALUE ug/L	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	32.3	30	107.7	70 - 130
1,2-Dichloroethane	30.3	30	101.0	70 - 130
1,4-Dichlorobenzene	30.6	30	102.0	70 - 130
Benzene	27.6	30	92.0	70 - 130
Bromoform	35.3	30	117.7	70 - 130
Carbon Tetrachloride	24.8	30	82.7	70 - 130
Tetrachloroethylene	29.9	30	99.7	70 - 130
Trichloroethylene	29	30	96.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen 5/29/13

020085

ATTACHMENT # 2

Total Extractable Petroleum Hydrocarbons
(TEPH, MO and DRO)
EPA Method 8015M
Soil & Water

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHOD 8015M
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS
(TEPH, DRO, MO)

1. Holding Time

   Analytical holding time was met.

2. Method Blank

   There was no contamination detected at reporting level.

3. Lab Control Sample

   Laboratory control samples for TEPH (C9-C36), diesel range organics (DRO), and motor oil (MO) were analyzed each in a batch. Recoveries were within QC limits.

4. Surrogate Recovery

   Recoveries met QC criteria.

5. Sample Duplicate

   Sample duplicates were analyzed for every batch of fourteen samples or less

6. Calibration

   Initial calibration was performed at five different concentrations. The percent relative standard deviation (% RSD) was within 15%. Continuing calibration check standards were within QC limits.

7. Sample Analysis

   Samples were analyzed according to the prescribed QC procedures. Reportable amount of TEPH were detected on sample number LN05578, LN05648, LN05649, LN05796, LN05918, and LN05932.
   Since TEPH range includes petroleum products such as diesel, motor oil, and transformer oil; detection of any or all of these products is reported as TEPH concentration. The presence of diesel, motor oil, and transformer oil in the sample is reported separately and also as TEPH concentration. Trace amount (<PQL) of TEPH concentrations were detected in a few samples.

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05578 #	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-10	GC Agilent	051713
LN05579	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-15	GC Agilent	051713
LN05580	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-20	GC Agilent	051713
LN05581	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-25	GC Agilent	051713
LN05582	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-30	GC Agilent	051713
LN05583	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-35	GC Agilent	051713
LN05584	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-40	GC Agilent	051713

	MDL / PQL mg/kg	MB mg/kg	LN05578 # mg/kg	LN05579 mg/kg	LN05580 mg/kg	LN05581 mg/kg	LN05582 mg/kg	LN05583 mg/kg	LN05584 mg/kg
Dilution Factor		1	5	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	4280	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145	ND	3240	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	1040	ND	ND	ND	ND	ND	ND
Quality Control Data									
		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	82.5%	107%	87.0%	68.0%	94.0%	82.5%	79.0%	89.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05585	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-45	GC Agilent	051713
LN05586	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-50	GC Agilent	051713
LN05587	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-55	GC Agilent	051713
LN05588	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-60	GC Agilent	052013
LN05589	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-65	GC Agilent	052013
LN05590	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-70	GC Agilent	052013
LN05591	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-75	GC Agilent	052013

	MDL / PQL mg/kg	MB mg/kg	LN05585 mg/kg	LN05586 mg/kg	LN05587 mg/kg	LN05588 mg/kg	LN05589 mg/kg	LN05590 mg/kg	LN05591 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	ND	ND	4.3 J	12.1 J	12.3 J	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	80.5%	96.0%	85.0%	82.0%	83.0%	75.0%	83.0%	82.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL
ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.
#True MDL/PQL = listed MDL/PQL X dilution factor.

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05592	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-80	GC Agilent	052013
LN05593	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-85	GC Agilent	052013
LN05594	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-90	GC Agilent	052013

	MDL / PQL mg/kg		LN05592 mg/kg	LN05593 mg/kg	LN05594 mg/kg			
Dilution Factor			1	1	1			
TEPH (C9 - C36)	4 / 20		ND	ND	4.5 J			
DRO (C10 - C28)	29 / 145		ND	ND	ND			
MOTOR OIL	35 / 175		ND	ND	ND			
Quality Control Data								
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC			
1-Chlorooctadecane	(60 - 140)		70.5%	68.5%	60.0%			

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1161

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05584 DUP	05/13/13	05/13/13	05/16/13	05/17/13	KLF-1-40	GC Agilent	051713
LN05588 DUP	05/13/13	05/13/13	05/20/13	05/20/13	KLF-1-60	GC Agilent	052013

	MDL / PQL mg/kg	LN05584 DUP mg/kg	LN05588 DUP mg/kg
Dilution Factor		1	1
TEPH (C9 - C36)	4 / 20	ND	ND
DRO (C10 - C28)	29 / 145	ND	ND
MOTOR OIL	35 / 175	ND	ND
Quality Control Data			
Surrogate/Internal Std.	% ACP	% RC	% RC
1-Chlorooctadecane	(60 - 140)	89.5%	105%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1161

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		052013	5/20/2013	280	200	71.4	70 - 130
DRO		052013	5/20/2013	500	350	70.0	70 - 130
MO		052013	5/20/2013	500	457	91.4	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
RG 6/4/13

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05648 #	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-10	GC Agilent	052013
LN05649	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-15	GC Agilent	052013
LN05650	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-20	GC Agilent	052013
LN05651	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-25	GC Agilent	052013
LN05652	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-30	GC Agilent	052013
LN05653	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-35	GC Agilent	052013
LN05654	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-40	GC Agilent	052013

	MDL / PQL mg/kg	MB mg/kg	LN05648 # mg/kg	LN05649 mg/kg	LN05650 mg/kg	LN05651 mg/kg	LN05652 mg/kg	LN05653 mg/kg	LN05654 mg/kg
Dilution Factor		1	5	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	5540	429	12.7 J	ND	ND	ND	12.3 J
DRO (C10 - C28)	29 / 145	ND	4520	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	1020	429	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	80.5%	111%	79.5%	79.0%	69.5%	76.5%	85.5%	91.0%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030007

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05655	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-45	GC Agilent	052013
LN05656	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-50	GC Agilent	052013
LN05657	05/14/13	05/14/13	05/20/13	05/20/13	KLF-2-55	GC Agilent	052013
LN05658	05/14/13	05/14/13	05/20/13	05/28/13	KLF-2-60	GC Agilent	052013
LN05659	05/14/13	05/14/13	05/20/13	05/28/13	KLF-2-65	GC Agilent	052013

	MDL / PQL mg/kg		LN05655 mg/kg	LN05656 mg/kg	LN05657 mg/kg	LN05658 mg/kg	LN05659 mg/kg		
Dilution Factor			1	1	1	1	1		
TEPH (C9 - C36)	4 / 20		ND	5.3 J	ND	ND	ND		
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND		
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC		
1-Chlorooctadecane	(60 - 140)		73.0%	65.5%	70.0%	79.0%	83.5%		

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1171

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05659 DUP	05/14/13	05/14/13	05/20/13	05/28/13	KLF-2-65	GC Agilent	052813

	MDL / PQL mg/kg		LN05659 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		88.0%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1171

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		052013	5/20/2013	280	200	71.4	70 - 130
DRO		052013	5/20/2013	500	350	70.0	70 - 130
MO		052013	5/20/2013	500	457	91.4	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
6/4/13

030010

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05740	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-10	GC Agilent	052813
LN05741	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-15	GC Agilent	052813
LN05742	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-20	GC Agilent	052813
LN05743	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-25	GC Agilent	052813
LN05744	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-30	GC Agilent	052813
LN05745	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-35	GC Agilent	052813
LN05746	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-40	GC Agilent	052813

	MDL / PQL mg/kg	MB mg/kg	LN05740 mg/kg	LN05741 mg/kg	LN05742 mg/kg	LN05743 mg/kg	LN05744 mg/kg	LN05745 mg/kg	LN0574 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	12.1 J	12.7 J	12.2 J	8.6 J	ND	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	102%	99.5%	109%	88.0%	81.0%	111%	114%	113%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1192

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05747	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-45	GC Agilent	052813
LN05748	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-50	GC Agilent	052813
LN05749	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-55	GC Agilent	052813
LN05750	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-60	GC Agilent	052813
LN05751	05/15/13	05/15/13	05/21/13	05/28/13	KLF-3-65	GC Agilent	052813

	MDL / PQL mg/kg		LN05747 mg/kg	LN05748 mg/kg	LN05749 mg/kg	LN05750 mg/kg	LN05751 mg/kg		
Dilution Factor			1	1	1	1	1		
TEPH (C9 - C36)	4 / 20		8.6 J	ND	ND	8.8 J	ND		
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND		
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC		
1-Chlorooctadecane	(60 - 140)		105%	109%	117%	106%	97.0%		

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030012

COC No. 13-1192

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05742 DUP	05/15/13	05/15/13	05/21/13	06/04/13	KLF-3-20	GC Agilent	060413

	MDL / PQL mg/kg		LN05742 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		5.8 J
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		82.5%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1192

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060413	6/4/2013	280	343	123	70 - 130
DRO		060413	6/4/2013	500	419	83.8	70 - 130
MO		060413	6/4/2013	500	374	74.8	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan RG 6/12/13

030014

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05796	05/16/13	05/17/13	05/21/13	05/28/13	KLF-5-5	GC Agilent	052803
LN05797	05/16/13	05/17/13	05/21/13	05/28/13	KLF-5-10	GC Agilent	052803
LN05798	05/16/13	05/17/13	05/21/13	05/28/13	KLF-5-15	GC Agilent	052803
LN05799	05/16/13	05/17/13	05/21/13	05/28/13	KLF-5-20	GC Agilent	052803
LN05800	05/16/13	05/17/13	05/21/13	05/28/13	KLF-5-25	GC Agilent	052803
LN05801	05/16/13	05/17/13	05/21/13	06/04/13	KLF-5-30	GC Agilent	060413
LN05802	05/16/13	05/17/13	05/21/13	06/04/13	KLF-5-35	GC Agilent	060413

	MDL / PQL mg/kg	MB mg/kg	LN05796 mg/kg	LN05797 mg/kg	LN05798 mg/kg	LN05799 mg/kg	LN05800 mg/kg	LN05801 mg/kg	LN05802 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	342	12.4 J	ND	ND	ND	6.0 J	7.5 J
DRO (C10 - C28)	29 / 145	ND	125 J	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	217	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	102%	130%	92.5%	81.0%	130%	67.0%	114%	113%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL
ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030015

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05803	05/16/13	05/17/13	05/21/13	06/04/13	KLF-5-40	GC Agilent	060413
LN05804	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-45	GC Agilent	060413
LN05805	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-50	GC Agilent	060413
LN05806	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-55	GC Agilent	060413
LN05807	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-60	GC Agilent	060413
LN05808	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-65	GC Agilent	060413
LN05809	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-70	GC Agilent	060413

	MDL / PQL mg/kg	MB mg/kg	LN05803 mg/kg	LN05804 mg/kg	LN05805 mg/kg	LN05806 mg/kg	LN05807 mg/kg	LN05808 mg/kg	LN05809 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	14.3 J	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	68.0%	105%	90.5%	94.5%	81.5%	83.0%	76.0%	76.5%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05810	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-5	GC Agilent	060413
LN05811	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-10	GC Agilent	060413
LN05812	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-15	GC Agilent	060413
LN05813	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-20	GC Agilent	060413
LN05814	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-25	GC Agilent	060413
LN05815	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-30	GC Agilent	060413
LN05816	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-35	GC Agilent	060413

	MDL / PQL mg/kg		LN05810 mg/kg	LN05811 mg/kg	LN05812 mg/kg	LN05813 mg/kg	LN05814 mg/kg	LN05815 mg/kg	LN05816 mg/kg
Dilution Factor			1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20		ND	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)		94.5%	87.5%	76.5%	78.0%	85.0%	93.0%	83.5%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

030017

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05817	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-40	GC Agilent	060413
LN05818	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-45	GC Agilent	060413
LN05819	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-50	GC Agilent	060413
LN05820	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-55	GC Agilent	060413
LN05821	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-60	GC Agilent	060413
LN05822	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-65	GC Agilent	060413
LN05823	05/16/13	05/17/13	05/30/13	06/04/13	KLF-4-70	GC Agilent	060413

	MDL / PQL mg/kg		LN05817 mg/kg	LN05818 mg/kg	LN05819 mg/kg	LN05820 mg/kg	LN05821 mg/kg	LN05822 mg/kg	LN05823 mg/kg
Dilution Factor			1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20		ND	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)		81.5%	85.0%	91.0%	92.0%	83.5%	92.0%	95.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030018

COC No. 13-1202

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05796 DUP	05/16/13	05/17/13	05/21/13	06/04/13	KLF-5-5	GC Agilent	060403
LN05805 DUP	05/16/13	05/17/13	05/30/13	06/04/13	KLF-5-50	GC Agilent	060413

	MDL / PQL mg/kg		LN05796 DUP mg/kg	LN05805 DUP mg/kg
Dilution Factor			1	1
TEPH (C9 - C36)	4 / 20		412	ND
DRO (C10 - C28)	29 / 145		130 J	ND
MOTOR OIL	35 / 175		282	ND
Quality Control Data				
Surrogate/Internal Std.	% ACP		% RC	% RC
1-Chlorooctadecane	(60 - 140)		104%	92.0%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

COC No. 13-1202

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060413	6/4/2013	280	343	123	70 - 130
DRO		060413	6/4/2013	500	419	83.8	70 - 130
MO		060413	6/4/2013	500	374	74.8	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/12/13

030020

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05904	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-5	GC Agilent	060313
LN05905	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-10	GC Agilent	060313
LN05906	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-15	GC Agilent	060313
LN05907	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-20	GC Agilent	060313
LN05908	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-25	GC Agilent	060313
LN05909	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-30	GC Agilent	060313
LN05910	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-35	GC Agilent	060313

	MDL / PQL mg/kg	MB mg/kg	LN05904 mg/kg	LN05905 mg/kg	LN05906 mg/kg	LN05907 mg/kg	LN05908 mg/kg	LN05909 mg/kg	LN05910 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	103%	91.0%	94.0%	81.0%	112%	89.5%	115%	82.5%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030021

COC No. 13-1232

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05911	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-40	GC Agilent	060313
LN05912	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-45	GC Agilent	060313
LN05913	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-50	GC Agilent	060313
LN05914	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-55	GC Agilent	060313
LN05915	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-60	GC Agilent	060313
LN05916	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-65	GC Agilent	060313
LN05917	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-70	GC Agilent	060313

	MDL / PQL mg/kg		LN05911 mg/kg	LN05912 mg/kg	LN05913 mg/kg	LN05914 mg/kg	LN05915 mg/kg	LN05916 mg/kg	LN05917 mg/kg
Dilution Factor			1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20		ND	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)		110%	78.0%	91.0%	117%	111%	131%	109%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030022

COC No. 13-1232

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05905 DUP	05/20/13	05/20/13	06/03/13	06/03/13	KLF-7-10	GC Agilent	060313

	MDL / PQL mg/kg		LN05905 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		113%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030023

COC No. 13-1232

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060313	6/3/2013	280	211	75.4	70 - 130
DRO		060313	6/3/2013	500	364	72.8	70 - 130
MO		060313	6/3/2013	500	386	77.2	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
6/13/13

030021

COC No. 13-1233

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05918 #	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-5	GC Agilent	060313
LN05919	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-10	GC Agilent	060313
LN05920	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-15	GC Agilent	060313
LN05921	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-20	GC Agilent	060313
LN05922	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-25	GC Agilent	060313
LN05923	05/20/13	05/20/13	06/03/13	06/03/13	KLF-6-30	GC Agilent	060313
LN05924	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-35	GC Agilent	060513

	MDL / PQL mg/kg	MB mg/kg	LN05918 # mg/kg	LN05919 mg/kg	LN05920 mg/kg	LN05921 mg/kg	LN05922 mg/kg	LN05923 mg/kg	LN05924 mg/kg
Dilution Factor		1	3	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	1710	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145	ND	531	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	1180	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	103%	108%	110%	67.0%	94.0%	131%	128%	94.0%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030025

COC No. 13-1233

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05925	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-40	GC Agilent	060513
LN05926	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-45	GC Agilent	060513
LN05927	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-50	GC Agilent	060513
LN05928	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-55	GC Agilent	060513
LN05929	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-60	GC Agilent	060513
LN05930	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-65	GC Agilent	060513
LN05931	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-70	GC Agilent	060513

	MDL / PQL mg/kg	MB mg/kg	LN05925 mg/kg	LN05926 mg/kg	LN05927 mg/kg	LN05928 mg/kg	LN05929 mg/kg	LN05930 mg/kg	LN05931 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	ND	ND	ND	ND	ND	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	93.0%	109%	84.0%	91.0%	95.0%	78.5%	105%	112%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.
#True MDL/PQL = listed MDL/PQL X dilution factor.

030026

COC No. 13-1233

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05924 DUP	05/20/13	05/20/13	06/03/13	06/05/13	KLF-6-35	GC Agilent	060513

	MDL / PQL mg/kg	LN05924 DUP mg/kg
Dilution Factor		1
TEPH (C9 - C36)	4 / 20	ND
DRO (C10 - C28)	29 / 145	ND
MOTOR OIL	35 / 175	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	% RC
1-Chlorooctadecane	(60 - 140)	105%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030027

COC No. 13-1233

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	280	215	76.8	70 - 130
DRO		060513	6/5/2013	500	409	81.8	70 - 130
MO		060513	6/5/2013	500	383	76.6	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/12/13

030028

COC No. 13-1234

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05932	05/20/13	05/20/13	06/03/13	06/05/13	SOIL DRUM PROFILE	GC Agilent	060513

	MDL / PQL mg/kg	MB mg/kg	LN05932 mg/kg
Dilution Factor		1	1
TEPH (C9 - C36)	4 / 20	ND	1370
DRO (C10 - C28)	29 / 145	ND	890
MOTOR OIL	35 / 175	ND	477
Quality Control Data		MB	
Surrogate/Internal Std.	% ACP	% RC	% RC
1-Chlorooctadecane	(60 - 140)	93.0%	104%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - above MDL but below PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

#True MDL/PQL = listed MDL/PQL X dilution factor.

030029

COC No. 13-1234

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

I. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	280	215	76.8	70 - 130
DRO		060513	6/5/2013	500	409	81.8	70 - 130
MO		060513	6/5/2013	500	383	76.6	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/13/13

030030

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05577	05/13/13	05/13/13	05/17/13	06/05/13	QCEB	GC Agilent	060513

	MDL / PQL mg/L	MB mg/L	LN05577 mg/L
Dilution Factor		1	1
TEPH (C9 - C36)	0.1 / 0.5	ND	ND
DRO (C10 - C28)	0.5 / 2.5	ND	ND
MOTOR OIL	0.3 / 1.5	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	MB % RC	% RC
1-Chlorooctadecane	(60 - 140)	86.5%	81.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1161

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

I. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8165 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/L

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	2.8	2.01	71.8	70 - 130
DRO		060513	6/5/2013	5	4.54	90.8	70 - 130
MO		060513	6/5/2013	5	5.25	105	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/12/13

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05646	05/14/13	05/14/13	05/17/13	06/05/13	QCEB	GC Agilent	060513
LN05660	05/14/13	05/14/13	05/17/13	06/05/13	QCFB	GC Agilent	060513

	MDL / PQL mg/L	MB mg/L	LN05646 mg/L	LN05660 mg/L
Dilution Factor		1	1	1
TEPH (C9 - C36)	0.1 / 0.5	ND	ND	ND
DRO (C10 - C28)	0.5 / 2.5	ND	ND	ND
MOTOR OIL	0.3 / 1.5	ND	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	MB % RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	86.5%	92.5%	88.0%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030033

COC No. 13-1171

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

I. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8165 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/L

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	2.8	2.01	71.8	70 - 130
DRO		060513	6/5/2013	5	4.54	90.8	70 - 130
MO		060513	6/5/2013	5	5.25	105	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/19/13

030034

COC No. 13-1192

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05739	05/15/13	05/15/13	05/17/13	06/05/13	QCEB	GC Agilent	060513
LN05752	05/15/13	05/15/13	05/17/13	06/05/13	QCFB	GC Agilent	060513

	MDL / PQL mg/L	MB mg/L	LN05739 mg/L	LN05752 mg/L
Dilution Factor		1	1	1
TEPH (C9 - C36)	0.1 / 0.5	ND	ND	ND
DRO (C10 - C28)	0.5 / 2.5	ND	ND	ND
MOTOR OIL	0.3 / 1.5	ND	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	MB % RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	86.5%	84.5%	86.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030035

COC No. 13-1192

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05739 DUP	05/15/13	05/15/13	05/17/13	06/05/13	QCEB	GC Agilent	060513

	MDL / PQL mg/kg	LN05739 DUP mg/kg
Dilution Factor		1
TEPH (C9 - C36)	0.1 / 0.5	ND
DRO (C10 - C28)	0.5 / 2.5	ND
MOTOR OIL	0.3 / 1.5	ND
Quality Control Data		
Surrogate/Internal Std.	% ACP	% RC
1-Chlorooctadecane	(60 - 140)	95.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030036

COC No. 13-1192

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8165 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/L

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	2.8	2.01	71.8	70 - 130
DRO		060513	6/5/2013	5	4.54	90.8	70 - 130
MO		060513	6/5/2013	5	5.25	105	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/19/13

030037

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05824	05/16/13	05/16/13	05/17/13	06/05/13	QCFB	GC Agilent	060513
LN05825	05/16/13	05/16/13	05/17/13	06/05/13	QCEB	GC Agilent	060513

	MDL / PQL mg/L	MB mg/L	LN05824 mg/L	LN05825 mg/L
Dilution Factor		1	1	1
TEPH (C9 - C36)	0.1 / 0.5	ND	ND	ND
DRO (C10 - C28)	0.5 / 2.5	ND	ND	ND
MOTOR OIL	0.3 / 1.5	ND	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	MB % RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	86.5%	86.5%	98.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030038

COC No. 13-1202

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

I. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8165 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/L

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	2.8	2.01	71.8	70 - 130
DRO		060513	6/5/2013	5	4.54	90.8	70 - 130
MO		060513	6/5/2013	5	5.25	105	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan 6/19/13

030039

COC No. 13-1231

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05901	05/20/13	05/20/13	05/24/13	06/05/13	QCEB	GC Agilent	060513
LN05902	05/20/13	05/20/13	05/24/13	06/05/13	QCFB	GC Agilent	060513

	MDL / PQL mg/L	MB mg/L	LN05901 mg/L	LN05902 mg/L
Dilution Factor		1	1	1
TEPH (C9 - C36)	0.1 / 0.5	ND	ND	ND
DRO (C10 - C28)	0.5 / 2.5	ND	ND	ND
MOTOR OIL	0.3 / 1.5	ND	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	MB % RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	89.5%	85.5%	85.0%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

030040

COC No. 13-1231

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN05902 DUP	05/20/13	05/20/13	05/24/13	06/05/13	QCFB	GC Agilent	060513

	MDL / PQL mg/kg	LN05902 DUP mg/kg
Dilution Factor		1
TEPH (C9 - C36)	0.1 / 0.5	ND
DRO (C10 - C28)	0.5 / 2.5	ND
MOTOR OIL	0.3 / 1.5	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	% RC
1-Chlorooctadecane	(60 - 140)	85.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1231

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8165 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/L

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		060513	6/5/2013	2.8	2.25	80.4	70 - 130
DRO		060513	6/5/2013	5	4.63	92.6	70 - 130
MO		060513	6/5/2013	5	5.14	103	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
RG 6/19/13

ATTACHMENT # 3

Total Recoverable Petroleum Hydrocarbons (TRPH)
EPA METHOD 418.1
&
EPA METHOD 1664B
Soil & Water

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHODS 418.1
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH)

1. Holding Time

   Analytical holding time was met.

2. Method Blank

   There was no contamination detected at reporting level.

3. Lab Control Sample

   Recoveries were within QC limits.

4. Matrix Spike/Matrix Spike Duplicate

   Samples LN05588, LN05658, LN05748, LN05658, LN05812, LN05822, LN05910, and LN05930 were analyzed for MS/MSD. Recoveries were within QC limits.

5. Calibration

   Initial calibration was performed at five different concentrations. The percent relative standard deviation (% RSD) was within 15%. Continuing calibration check standards were within QC limits.

6. Sample Analysis

   The soil samples were analyzed according to the prescribed QC procedures. Samples were extracted with solvent and analyzed by infrared spectrophotometry. Petroleum hydrocarbons were detected on samples LN05578, LN05648, LN05649, LN05796, and LN05918. Trace amounts of petroleum hydrocarbons detected some samples were below reporting level..
   The water samples were not analyzed by EPA Method 418.1 as requested in the Chain-of-Custody in reference to the Method Update Rule of March 12, 2007. However, the samples were analyzed using an alternate method EPA 1664B (HEM; Oil and Grease).without silica gel treatment. All sample results were free of contamination.

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1161

Project: FIGUEROA PUMPING STATION
Collection Date: 5/13/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05578	KLF-1-10	20130520	05/20/13	18	90	11749
LN05579	KLF-1-15	20130520	05/20/13	18	90	61 J
LN05580	KLF-1-20	20130520	05/20/13	18	90	56 J
LN05581	KLF-1-25	20130520	05/20/13	18	90	38 J
LN05582	KLF-1-30	20130520	05/20/13	18	90	26 J
LN05583	KLF-1-35	20130520	05/20/13	18	90	37 J
LN05584	KLF-1-40	20130520	05/20/13	18	90	ND
LN05585	KLF-1-45	20130520	05/20/13	18	90	ND
LN05586	KLF-1-50	20130520	05/20/13	18	90	31 J
LN05587	KLF-1-55	20130520	05/20/13	18	90	26 J
LN05588	KLF-1-60	20130520	05/20/13	18	90	ND
LN05589	KLF-1-65	20130520	05/20/13	18	90	ND
LN05590	KLF-1-70	20130520	05/20/13	18	90	31 J
LN05591	KLF-1-75	20130520	05/20/13	18	90	ND
LN05592	KLF-1-80	20130520	05/20/13	18	90	ND
LN05593	KLF-1-85	20130520	05/20/13	18	90	ND
LN05594	KLF-1-90	20130520	05/20/13	18	90	ND

Quality Control Data

COC- 13-1161

Initial Calibration:04-22-13 **Corr. Coefficient:0.997**

Analysis Date 05-20-2013

	QC Batch	Result
Blank	20130520	ND

CC		QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3		20130520	217	218	100%	70% - 130%
CC-3		20130520	224	218	103%	70% - 130%

LCS		QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739		20130520	2369	2320	102%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05588	20130520	ND	1386	1464	1460	105%	1490	102%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1171

Project: FIGUEROA PUMPING STATION
Collection Date: 5/14/2013
Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05648	KLF-2-10	20130521	05/21/13	18	90	13093
LN05649	KLF-2-15	20130521	05/21/13	18	90	1592
LN05650	KLF-2-20	20130521	05/21/13	18	90	ND
LN05651	KLF-2-25	20130521	05/21/13	18	90	ND
LN05652	KLF-2-30	20130521	05/21/13	18	90	ND
LN05653	KLF-2-35	20130521	05/21/13	18	90	ND
LN05654	KLF-2-40	20130521	05/21/13	18	90	ND
LN05655	KLF-2-45	20130521	05/21/13	18	90	ND
LN05656	KLF-2-50	20130521	05/21/13	18	90	ND
LN05657	KLF-2-55	20130521	05/21/13	18	90	ND
LN05658	KLF-2-60	20130521	05/21/13	18	90	ND
LN05659	KLF-2-65	20130521	05/21/13	18	90	ND

Quality Control Data

COC- 13-1171

Initial Calibration:04-22-13 **Corr. Coefficient:0.997**

Analysis Date 05-21-2013

	QC Batch	Result
Blank	20130521	ND

CC	QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3	20130521	114	112	102%	70% - 130%
CC-3	20130521	113	112	101%	70% - 130%

LCS	QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739	20130521	1844	2320	79%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05658	20130521	ND	1512	1602	1500	99%	1530	96%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1192

Project: FIGUEROA PUMPING STATION
Collection Date: 5/15/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05740	KLF-3-10	20130521	05/21/13	18	90	ND
LN05741	KLF-3-15	20130521	05/21/13	18	90	51 J
LN05742	KLF-3-20	20130521	05/21/13	18	90	ND
LN05743	KLF-3-25	20130521	05/21/13	18	90	ND
LN05744	KLF-3-30	20130521	05/21/13	18	90	ND
LN05745	KLF-3-35	20130521	05/21/13	18	90	ND
LN05746	KLF-3-40	20130521	05/21/13	18	90	ND
LN05747	KLF-3-45	20130521	05/21/13	18	90	ND
LN05748	KLF-3-50	20130521	05/21/13	18	90	ND
LN05749	KLF-3-55	20130521	05/21/13	18	90	ND
LN05750	KLF-3-60	20130521	05/21/13	18	90	ND
LN05751	KLF-3-65	20130521	05/21/13	18	90	ND

Quality Control Data

COC- 13-1192

Initial Calibration:04-22-13 **Corr. Coefficient:0.997**

Analysis Date 05-21-2013

	QC Batch	Result
Blank	20130521	ND

CC	QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3	20130521	114	112	102%	70% - 130%
CC-3	20130521	113	112	101%	70% - 130%

LCS	QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739	20130521	1844	2320	79%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05748	20130521	ND	1454	1350	1563	107%	1564	116%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1202

Project: FIGUEROA PUMPING STATION
Collection Date: 5/16/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05796	KLF-5-5	20130521	05/21/13	18	90	273
LN05797	KLF-5-10	20130521	05/21/13	18	90	ND
LN05798	KLF-5-15	20130521	05/21/13	18	90	ND
LN05799	KLF-5-20	20130521	05/21/13	18	90	ND
LN05800	KLF-5-25	20130521	05/21/13	18	90	ND
LN05801	KLF-5-30	20130521	05/21/13	18	90	ND
LN05802	KLF-5-35	20130521	05/21/13	18	90	ND
LN05803	KLF-5-40	20130521	05/21/13	18	90	ND
LN05804	KLF-5-45	20130521	05/21/13	18	90	ND
LN05805	KLF-5-50	20130521	05/21/13	18	90	ND
LN05806	KLF-5-55	20130521	05/21/13	18	90	ND
LN05807	KLF-5-60	20130521	05/21/13	18	90	ND
LN05808	KLF-5-65	20130521	05/21/13	18	90	ND
LN05809	KLF-5-70	20130521	05/21/13	18	90	ND
LN05810	KLF-4-5	20130521	05/21/13	18	90	ND
LN05811	KLF-4-10	20130521	05/21/13	18	90	ND

Quality Control Data

COC- 13-1202

Initial Calibration:04-22-13 **Corr. Coefficient:0.997**

Analysis Date 05-21-2013

	QC Batch	Result
Blank	20130521	ND

CC	QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3	20130521	114	112	102%	70% - 130%
CC-3	20130521	113	112	101%	70% - 130%

LCS	QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739	20130521	1844	2320	79%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05658	20130521	ND	1512	1602	1500	99%	1530	96%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1202

Project: FIGUEROA PUMPING STATION
Collection Date: 5/16/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05812	KLF-4-15	20130529	05/29/13	18	90	ND
LN05813	KLF-4-20	20130529	05/29/13	18	90	ND
LN05814	KLF-4-25	20130529	05/29/13	18	90	29 J
LN05815	KLF-4-30	20130529	05/29/13	18	90	22 J
LN05816	KLF-4-35	20130529	05/29/13	18	90	27 J
LN05817	KLF-4-40	20130529	05/29/13	18	90	27 J
LN05818	KLF-4-45	20130529	05/29/13	18	90	ND
LN05819	KLF-4-50	20130529	05/29/13	18	90	29 J
LN05820	KLF-4-55	20130529	05/29/13	18	90	ND
LN05821	KLF-4-60	20130529	05/29/13	18	90	ND
LN05822	KLF-4-65	20130529	05/29/13	18	90	29 J
LN05823	KLF-4-70	20130529	05/29/13	18	90	28 J

Quality Control Data

COC- 13-1202

Initial Calibration:05-28-13 **Corr. Coefficient:0.999**

Analysis Date 05-29-2013

	QC Batch	Result
Blank	20130529	ND

CC		QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3		20130529	80	82	98%	70% - 130%
CC-3		20130529	78	82	95%	70% - 130%

LCS		QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739		20130529	3226	2320	139%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05812	20130529	ND	1507	1445	1430	94%	1460	100%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan*
6/6/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1232

Project: FIGUEROA PUMPING STATION
Collection Date: 5/20/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05904	KLF-7-5	20130529	05/29/13	18	90	86 J
LN05905	KLF-7-10	20130522	05/29/13	18	90	ND
LN05906	KLF-7-15	20130522	05/29/13	18	90	ND
LN05907	KLF-7-20	20130522	05/29/13	18	90	ND
LN05908	KLF-7-25	20130522	05/29/13	18	90	ND
LN05909	KLF-7-30	20130522	05/29/13	18	90	29 J

Quality Control Data

COC- 13-1232

Initial Calibration:05-29-2013 **Corr. Coefficient:0.999**

Analysis Date 05-29-2013

	QC Batch	Result
Blank	20130529	ND

CC	QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3	20130529	80	82	98%	70% - 130%
CC-3	20130529	78	80	94%	70% - 130%

LCS	QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739	20130529	3226	2320	139%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05822	20130529	29 J	1427	1423	1466	100%	1435	99%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1232

Project: FIGUEROA PUMPING STATION
Collection Date: 5/20/2013

Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05910	KLF-7-35	20130530	05/30/13	18	90	28 J
LN05911	KLF-7-40	20130530	05/30/13	18	90	28 J
LN05912	KLF-7-45	20130530	05/30/13	18	90	21 J
LN05913	KLF-7-50	20130530	05/30/13	18	90	ND
LN05914	KLF-7-55	20130530	05/30/13	18	90	ND
LN05915	KLF-7-60	20130530	05/30/13	18	90	ND
LN05916	KLF-7-65	20130530	05/30/13	18	90	ND
LN05917	KLF-7-70	20130530	05/30/13	18	90	29 J

Quality Control Data

COC- 13-1232

Initial Calibration:05-28-13 **Corr. Coefficient:0.999**

Analysis Date 05-30-2013

	QC Batch	Result
Blank	20130530	ND

CC		QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3		20130530	78	82	95%	70% - 130%
CC-3		20130530	78	82	95%	70% - 130%

LCS		QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739		20130530	2643	2320	114%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05910	20130530	28 J	1390	1377	1330	94%	1370	97%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L - Reporting Limit (5 x MDL)
J - above MDL but below RL
% Rec. - percent recovery
LCS - Lab Control Sample
CC - Calibration Check Standard

Analyst: A. Ogunnubi
Reviewed by: *R. Gentallan* 6/4/13

Department of Water & Power
Environmental Laboratory Data Report
Total Recoverable Petroleum Hydrocarbons (TRPH)
Method USEPA 418.1
Matrix: Soil

COC No.: 13-1233

Project: FIGUEROA PUMPING STATION
Collection Date: 5/20/2013
Instrument I.D.: Foxboro Miran 1FF
Unit: mg/kg

Sample ID	Sample Description	Batch QC	Date Analyzed	MDL mg/kg	R.L mg/kg	TRPH mg/kg
LN05918	KLF-6-5	20130530	05/30/13	18	90	7198
LN05919	KLF-6-10	20130530	05/30/13	18	90	28 J
LN05920	KLF-6-15	20130530	05/30/13	18	90	29 J
LN05921	KLF-6-20	20130530	05/30/13	18	90	ND
LN05922	KLF-6-25	20130530	05/30/13	18	90	36 J
LN05923	KLF-6-30	20130530	05/30/13	18	90	37 J
LN05924	KLF-6-35	20130530	05/30/13	18	90	21 J
LN05925	KLF-6-40	20130530	05/30/13	18	90	ND
LN05926	KLF-6-45	20130530	05/30/13	18	90	28 J
LN05927	KLF-6-50	20130530	05/30/13	18	90	43 J
LN05928	KLF-6-55	20130530	05/30/13	18	90	28 J
LN05929	KLF-6-60	20130530	05/30/13	18	90	29 J
LN05930	KLF-6-65	20130530	05/30/13	18	90	22 J
LN05931	KLF-6-70	20130530	05/30/13	18	90	29 J

Quality Control Data

COC- 13-1233

Initial Calibration:05-28-13 **Corr. Coefficient:0.999**

Analysis Date 05-30-2013

	QC Batch	Result
Blank	20130530	ND

CC	QC Batch	Result	Assigned Value	% Rec.	QC Limits
CC-3	20130530	78	82	95%	70% - 130%
CC-3	20130530	78	82	95%	70% - 130%

LCS	QC Batch	Result	Assigned Value	% Rec.	Accepted Range
Q8739	20130530	2643	2320	114%	357-3650

Matrix Spike		Sample	Spike	Spike	Result	% Rec.	Result	% Rec.
Sample ID	QC Batch	Conc.	Conc. 1	Conc. 2	Spike 1	Spike 1	Spike 2	Spike 2
LN05930	20130530	22	1432	1416	1420	98%	1410	98%

ND - Not Detected; below method detection limit
J - above MDL but below RL
LCS - Lab Control Sample
MDL - Method Detection Limit
% Rec. - percent recovery
CC - Calibration Check Standard
R.L - Reporting Limit (5 x MDL)

Analyst: A. Ogunnubi

Reviewed by: *R. Gentallan* RG 6/14/13

Department of Water & Power
Environmental Laboratory Data Report on Oil & Grease
USEPA Method 1664B
Matrix: Water

COC No.:13-1161, 13-1171,
13-1192, 13-1202, 13-1231

Project Name: FIGUEROA PUMPING STATION

Date Sampled 5/13/13 TO 5/20/2013

Unit: mg/L

Sample ID	Sample Description	Sample Date	Analysis Date	MDL mg/L	RL mg/L	Oil & Grease mg/L
LN05577	QCEB	5/13/2013	5/24/2013	0.5	2.5	ND
LN05646	QCEB	5/14/2013	5/24/2013	0.5	2.5	ND
LN05660	QCFB	5/14/2013	5/29/2013	0.5	2.5	ND
LN05739	QCEB	5/15/2013	5/29/2013	0.5	2.5	ND
LN05752	QCFB	5/15/2013	5/29/2013	0.5	2.5	ND
LN05824	QCFB	5/16/2013	5/29/2013	0.5	2.5	ND
LN05825	QCEB	5/16/2013	5/29/2013	0.5	2.5	ND
LN05901	QCEB	5/20/2013	5/29/2013	0.5	2.5	ND
LN05902	QCFB	5/20/2013	5/29/2013	0.5	2.5	ND

Quality Control Data

	Analysis Date	Result
Blank	5/24/2013	<0.5
	5/29/2013	<0.5

Blank Spike	Analysis Date	Spike Conc. 1 ug/L	Spike Conc. 2 ug/L	Blank Spike 1 ug/L	% Rec. Spike 1	Blank Spike 2 ug/L	% Rec. Spike 2	QC Limits
	5/24/2013	24	24	22.3	93%	21.7	90%	83-101%
	5/29/2013	24	24	24.0	100%	23.8	99%	83-101%

ND - Not Detected; below method detection limit *J - above MDL and below RL* *% Rec. - percent recovery*

MDL - Method Detection Limit *R.L - Reporting Limit (5 x MDL)*

Analyst: N. Perez

Reviewed by: 7/25/13

ATTACHMENT # 4

Gasoline Range Organics (GRO)
EPA Method 8015B
Soil & Water

Report No. C12071

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHOD 8015B
GRO (GASOLINE RANGE ORGANICS)

1. Holding Time

   Analytical holding time was met.

2. Method Blank

   There was no contamination detected at reporting level.

3. Lab Control Sample

   Recoveries were within QC limits

4. Surrogate Recovery

   Recoveries were within QC limits

5. Matrix Spike/Matrix Spike Duplicate

   Samples LN05588, LN05659, LN05749, LN05823, LN05922, and LN05577 were analyzed for MS/MSD. Recoveries were within QC limits.

6. Calibration

   Initial calibration was performed at five different concentrations. The percent relative standard deviation (% RSD) was within 15%. Continuing calibration check standards were within QC limits.

7. Sample Analysis

   Samples were analyzed according to the prescribed QC procedures. There was no contamination from gasoline range organics at reporting level.

COC No. 13-1161

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05578	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 10	AG gas	20130521
LN05579	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 15	AG gas	20130521
LN05580	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 20	AG gas	20130521
LN05581	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 25	AG gas	20130521
LN05582	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 30	AG gas	20130521
LN05583	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 35	AG gas	20130521
LN05584	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 40	AG gas	20130521

	MDL / PQL mg/kg	MB mg/kg	LN05578 mg/kg	LN05579 mg/kg	LN05580 mg/kg	LN05581 mg/kg	LN05582 mg/kg	LN05583 mg/kg	LN05584 mg/kg
Dilution Factor	1	1	20 **	20**	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	104%	122%	104%	103%	106%	105%	107%	106%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

** *Sample was analyzed at higher dilution; Sample extract was either highly colored or exhibiting high turbidity*
MDL / PQL for samples analyzed at higher dilutions computed as MDL/PQL (dilution x1) multiplied by the dilution factor

COC No. 13-1161

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05585	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 45	AG gas	20130521
LN05586	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 50	AG gas	20130521
LN05587	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 55	AG gas	20130521
LN05588	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 60	AG gas	20130521
LN05589	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 65	AG gas	20130521
LN05590	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 70	AG gas	20130521
LN05591	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 75	AG gas	20130521

	MDL / PQL mg/kg	MB mg/kg	LN05585 mg/kg	LN05586 mg/kg	LN05587 mg/kg	LN05588 mg/kg	LN05589 mg/kg	LN05590 mg/kg	LN05591 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	104%	105%	107%	107%	106%	107%	104%	103%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1161

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05592	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 80	AG gas	20130521
LN05593	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 85	AG gas	20130521
LN05594	05/13/13	05/13/13	05/14/13	05/22/13	KLF - 1 - 90	AG gas	20130521

	MDL / PQL mg/kg	MB mg/kg	LN05592 mg/kg	LN05593 mg/kg	LN05594 mg/kg
Dilution Factor	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND
Quality Control Data					
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	104%	109%	117%	106%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05588	20130521	ND	22.0	18.3	83.2%	18.9	85.9%	3.2%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130521	5/22/2013	22.0	27.5	125.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/4/13

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05648	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-10	AG gas	20130521
LN05649	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-15	AG gas	20130521
LN05650	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-20	AG gas	20130521
LN05651	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-25	AG gas	20130521
LN05652	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-30	AG gas	20130521
LN05653	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-35	AG gas	20130521
LN05654	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-40	AG gas	20130521

	MDL / PQL mg/kg	MB mg/kg	LN05648 mg/kg	LN05649 mg/kg	LN05650 mg/kg	LN05651 mg/kg	LN05652 mg/kg	LN05653 mg/kg	LN05654 mg/kg
Dilution Factor	1	1	20**	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	104%	127%	102%	105%	104%	105%	104%	97.3%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

** *Sample was analyzed at higher dilution; Sample extract was either highly colored or exhibiting high turbidity*

MDL / PQL for samples analyzed at higher dilutions computed as MDL/PQL (dilution x1) multiplied by the dilution factor

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05655	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-45	AG gas	20130521
LN05656	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-50	AG gas	20130521
LN05657	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-55	AG gas	20130521
LN05658	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-60	AG gas	20130521
LN05659	05/14/13	05/14/13	05/15/13	05/22/13	KLF-2-65	AG gas	20130521

	MDL / PQL mg/kg	MB mg/kg	LN05655 mg/kg	LN05656 mg/kg	LN05657 mg/kg	LN05658 mg/kg	LN05659 mg/kg
Dilution Factor	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND
Quality Control Data							
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	104%	106%	103%	104%	105%	104%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050007

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/kg

SAMPLE LOG NO.	BATCH QC	SAMPLE CONC	SPIKE CONC	MS	% MS	MSD	% MSD	RPD	MS/MSD % ACP	RPD ACP
LN05588	20130521	ND	22.0	18.3	83.2%	18.9	85.9%	3.2%	70-130	30
LN05659	20130521	ND	22.0	23.1	105%	18.0	81.8%	24.8%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130521	5/22/2013	22.0	27.5	125	70 - 130
Gasoline	20130521	5/22/2013	22.0	18.7	85.0	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/4/13

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05740	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-10	AG gas	20130522
LN05741	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-15	AG gas	20130522
LN05742	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-20	AG gas	20130522
LN05743	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-25	AG gas	20130522
LN05744	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-30	AG gas	20130522
LN05745	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-35	AG gas	20130522
LN05746	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-40	AG gas	20130522

	MDL / PQL mg/kg	MB mg/kg	LN05740 mg/kg	LN05741 mg/kg	LN05742 mg/kg	LN05743 mg/kg	LN05744 mg/kg	LN05745 mg/kg	LN05746 mg/kg
Dilution Factor	1	1	1	20**	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	105%	105%	103%	103%	105%	103%	102%	102%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

** *Sample was analyzed at higher dilution; Sample extract was either highly colored or exhibiting high turbidity*

MDL / PQL for samples analyzed at higher dilutions computed as MDL/PQL (dilution x1) multiplied by the dilution factor

COC No. 13-1192

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05747	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-45	AG gas	20130522
LN05748	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-50	AG gas	20130522
LN05749	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-55	AG gas	20130522
LN05750	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-60	AG gas	20130522
LN05751	05/15/13	05/15/13	05/16/13	05/22/13	KLF-3-65	AG gas	20130522

	MDL / PQL mg/kg	MB mg/kg	LN05747 mg/kg	LN05748 mg/kg	LN05749 mg/kg	LN05750 mg/kg	LN05751 mg/kg
Dilution Factor	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND
Quality Control Data							
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	105%	102%	100%	103%	104%	103%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050010

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE LOG NO.	BATCH QC	SAMPLE CONC	SPIKE CONC	MS	% MS	MSD	% MSD	RPD	MS/MSD % ACP	RPD ACP
LN05749	20130522	ND	22.0	28.4	129%	26.6	121%	6.5%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130522	5/22/2013	22.00	27.9	127	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/4/13

050011

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05796	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-5	AG gas	20130523
LN05797	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-10	AG gas	20130523
LN05798	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-15	AG gas	20130523
LN05799	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-20	AG gas	20130523
LN05800	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-25	AG gas	20130523
LN05801	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-30	AG gas	20130523
LN05802	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-35	AG gas	20130523

	MDL / PQL mg/kg	MB mg/kg	LN05796 mg/kg	LN05797 mg/kg	LN05798 mg/kg	LN05799 mg/kg	LN05800 mg/kg	LN05801 mg/kg	LN05802 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	107%	104%	104%	101%	112%	112%	108%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05803	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-40	AG gas	20130523
LN05804	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-45	AG gas	20130523
LN05805	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-50	AG gas	20130523
LN05806	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-55	AG gas	20130523
LN05807	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-60	AG gas	20130523
LN05808	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-65	AG gas	20130523
LN05809	05/16/13	05/17/13	05/17/13	05/23/13	KLF-5-70	AG gas	20130523

	MDL / PQL mg/kg	MB mg/kg	LN05803 mg/kg	LN05804 mg/kg	LN05805 mg/kg	LN05806 mg/kg	LN05807 mg/kg	LN05808 mg/kg	LN05809 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	110%	111%	111%	109%	106%	104%	104%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050013

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05810	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-5	AG gas	20130523
LN05811	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-10	AG gas	20130523
LN05812	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-15	AG gas	20130523
LN05813	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-20	AG gas	20130523
LN05814	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-25	AG gas	20130523
LN05815	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-30	AG gas	20130523
LN05816	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-35	AG gas	20130523

	MDL / PQL mg/kg	MB mg/kg	LN05810 mg/kg	LN05811 mg/kg	LN05812 mg/kg	LN05813 mg/kg	LN05814 mg/kg	LN05815 mg/kg	LN05816 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	103%	104%	107%	102%	106%	103%	106%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050014

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05817	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-40	AG gas	20130523
LN05818	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-45	AG gas	20130523
LN05819	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-50	AG gas	20130523
LN05820	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-55	AG gas	20130523
LN05821	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-60	AG gas	20130523
LN05822	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-65	AG gas	20130523
LN05823	05/16/13	05/17/13	05/17/13	05/23/13	KLF-4-70	AG gas	20130523

	MDL / PQL mg/kg	MB mg/kg	LN05817 mg/kg	LN05818 mg/kg	LN05819 mg/kg	LN05820 mg/kg	LN05821 mg/kg	LN05822 mg/kg	LN05823 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	105%	107%	104%	105%	106%	105%	105%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050215

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05823	20130523	ND	22.0	27.5	125%	27.5	125%	0.0%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130523	5/23/2013	22.0	27.5	125	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/11/13

COC No. 13-1232

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05904	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 5	AG gas	20130523
LN05905	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 10	AG gas	20130523
LN05906	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 15	AG gas	20130523
LN05907	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 20	AG gas	20130523
LN05908	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 25	AG gas	20130523
LN05909	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 30	AG gas	20130523
LN05910	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 35	AG gas	20130523

	MDL / PQL mg/kg	MB mg/kg	LN05904 mg/kg	LN05905 mg/kg	LN05906 mg/kg	LN05907 mg/kg	LN05908 mg/kg	LN05909 mg/kg	LN05910 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	106%	106%	107%	106%	105%	107%	107%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1232

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05911	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 40	AG gas	20130523
LN05912	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 45	AG gas	20130523
LN05913	05/20/13	05/20/13	05/20/13	05/23/13	KLF - 7 - 50	AG gas	20130523
LN05914	05/20/13	05/20/13	05/21/13	05/28/13	KLF - 7 - 55	AG gas	20130528
LN05915	05/20/13	05/20/13	05/21/13	05/28/13	KLF - 7 - 60	AG gas	20130528
LN05916	05/20/13	05/20/13	05/21/13	05/28/13	KLF - 7 - 65	AG gas	20130528
LN05917	05/20/13	05/20/13	05/21/13	05/28/13	KLF - 7 - 70	AG gas	20130528

	MDL / PQL mg/kg	MB mg/kg	LN05911 mg/kg	LN05912 mg/kg	LN05913 mg/kg	LN05914 mg/kg	LN05915 mg/kg	LN05916 mg/kg	LN05917 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	108%	106%	107%	108%	110%	110%	110%	110%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050018

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE LOG NO.	BATCH QC	SAMPLE CONC	SPIKE CONC	MS	% MS	MSD	% MSD	RPD	MS/MSD % ACP	RPD ACP
LN05922	20130528	ND	22.0	21.3	96.8%	16.3	74.1%	26.6%	70-130	30
LN05823	20130523	ND	22.0	27.5	125%	27.5	125%	0.0%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130528	5/28/2013	22.0	26.2	119	70 - 130
Gasoline	20130523	5/23/2013	22.0	27.5	125	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/12/13

COC No. 13-1233

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05918	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 5	AG gas	20130528
LN05919	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 10	AG gas	20130528
LN05920	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 15	AG gas	20130528
LN05921	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 20	AG gas	20130528
LN05922	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 25	AG gas	20130528
LN05923	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 30	AG gas	20130528
LN05924	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 35	AG gas	20130528

	MDL / PQL mg/kg	MB mg/kg	LN05918 mg/kg	LN05919 mg/kg	LN05920 mg/kg	LN05921 mg/kg	LN05922 mg/kg	LN05923 mg/kg	LN05924 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	112%	111%	111%	110%	109%	110%	110%	109%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050020

COC No. 13-1233

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05925	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 40	AG gas	20130528
LN05926	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 45	AG gas	20130528
LN05927	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 50	AG gas	20130528
LN05928	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 55	AG gas	20130528
LN05929	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 60	AG gas	20130528
LN05930	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 65	AG gas	20130528
LN05931	05/20/13	05/20/13	05/21/13	05/28/13	KLF- 6 - 70	AG gas	20130528

	MDL / PQL mg/kg	MB mg/kg	LN05925 mg/kg	LN05926 mg/kg	LN05927 mg/kg	LN05928 mg/kg	LN05929 mg/kg	LN05930 mg/kg	LN05931 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	112%	110%	110%	110%	110%	111%	109%	111%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

050021

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05922	20130528	ND	22.0	21.3	96.8%	16.3	74.1%	26.6%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130528	5/28/2013	22.0	26.2	119	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/12/13

050022

COC No. 13-1234

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05932	05/20/13	05/20/13	05/21/13	05/28/13	SOIL DRUM PROFILE	AG gas	20130528

	MDL / PQL mg/kg	MB mg/kg	LN05932 mg/kg
Dilution Factor	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND
Quality Control Data			
Surrogate/Internal Std.	% ACP	% RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	112%	130%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050023

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05922	20130528	ND	22.0	21.3	96.8%	16.3	74.1%	26.6%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130528	5/28/2013	22.0	26.2	119	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/12/13

050024

COC No. 13-1161

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05577	05/13/13	05/13/13	05/17/13	QCEB	AG gas	20130517

	MDL / PQL mg/L	MB mg/L	LN05577 mg/L
Dilution Factor	1	1	1
Gasoline (GRO)	0.04 / 0.2	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	% RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	123%	110%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No.13-1161

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/L

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05577	20130517	ND	1.00	1.28	128%	1.30	130%	1.6%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130517	5/17/2013	1.00	0.72	72.0	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 5/16/4/13

050026

COC No. 13-1171

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05646	05/14/13	05/14/13	05/17/13	QCEB	AG gas	20130517
LN05660	05/14/13	05/14/13	05/17/13	QCFB	AG gas	20130517

	MDL / PQL mg/L	MB mg/L	LN05646 mg/L	LN05660 mg/L
Dilution Factor	1	1	1	1
Gasoline (GRO)	0.04 /0.2	ND	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	% RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	123%	111%	109%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050027

COC No.13-1171

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/L

SAMPLE LOG NO.	BATCH QC	SAMPLE CONC	SPIKE CONC	MS	% MS	MSD	% MSD	RPD	MS/MSD % ACP	RPD ACP
LN05577	20130517	ND	1.00	1.28	128%	1.30	130%	1.6%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130517	5/17/2013	1.00	0.72	72.0	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/4/13

050028

COC No. 13-1192

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION			INSTR. ID	RUN LOG/BATCH
LN05739	05/15/13	05/15/13	05/17/13	QCEB			AG gas	20130517
LN05752	05/15/13	05/15/13	05/17/13	QCFB			AG gas	20130517
		MDL / PQL mg/L	MB mg/L	LN05739 mg/L	LN05752 mg/L			
Dilution Factor		1	1	1	1			
Gasoline (GRO)		0.04 / 0.2	ND	ND	ND			
Quality Control Data								
Surrogate/Internal Std.		% ACP	% RC	%RC	%RC			
1, 2 Dichlorobenzene-d4		(70 - 130)	123%	110%	111%			

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

050029

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/L

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN05577	20130517	ND	1.00	1.28	128%	1.30	130%	1.6%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20150517	5/17/2013	1.00	0.72	72.0	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/19/13

050030

COC No. 13-1202

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05824	05/16/13	05/17/13	05/28/13	QCFB	AG gas	20130528
LN05825	05/16/13	05/17/13	05/28/13	QCEB	AG gas	20130528

	MDL / PQL mg/L	MB mg/L	LN05824 mg/L	LN05825 mg/L
Dilution Factor	1	1	1	1
Gasoline (GRO)	0.04 / 0.2	ND	ND	ND
Quality Control Data				
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	110%	110%	112%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: WATER
Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/L

SAMPLE LOG NO.	BATCH QC	SAMPLE CONC	SPIKE CONC	MS	% MS	MSD	% MSD	RPD	MS/MSD % ACP	RPD ACP
LN06129	20130528	ND	1.0	0.99	99.0%	0.92	92.0%	7.3%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130528	5/28/2013	1.00	0.79	79.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/19/13

050032

COC No. 13-1231

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN05901	05/20/13	05/20/13	05/28/13	QCEB	AG gas	20130528
LN05902	05/20/13	05/20/13	05/28/13	QCFB	AG gas	20130528

	MDL / PQL mg/L	MB mg/L	LN05901 mg/L	LN05902 mg/L
Dilution Factor	1	1	1	1
Gasoline (GRO)	0.04 /0.2	ND	ND	ND
Quality Control Data				
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	110%	110%	110%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT

GRO (Gasoline Range Organics)

Sample Matrix: WATER

Project: FIGUEROA PUMPING STATION

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Reporting Unit: mg/L

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN06129	20130528	ND	1.0	0.99	99.0%	0.92	92.0%	7.3%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No. Q8646

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130528	5/28/2013	1.00	0.79	79.0	70 - 130

Analyzed by *B. Estrada*

Reviewed by *R. Gentallan* 6/19/13

050034

ATTACHMENT #5

Polychlorinated Biphenyls (PCBs)
EPA Method 8082
Soil

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHOD 8082
PBCs (Polychlorinated Biphenyls)

1. Holding Time

   Analysis met holding time criteria.

2. Method Blank

   Laboratory blank soil was used as method blank. There was no contamination detected at reporting level.

3. Lab Control Sample

   Recoveries were within QC limits

4 Surrogate Recovery

   Recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

   Sample LN05932 was spiked with PCB-1242 and PCB-1260 for MS/MSD.
   Recoveries met QC criteria.

7. Calibration

   Initial calibration was performed at five different concentrations for PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, and PCB-1260. The percent Relative Standard Deviation (% RSD) were all within 15%. Continuing calibration standards were analyzed at 10 samples interval for PCB-1242 and PCB-1260, and at 30 samples interval for PCB-1016, PCB-1221, PCB-1232, PCB-1248, and PCB-1254.

7. Sample Analysis

   Samples were analyzed according to the prescribed QC procedures. There was no PCB detected on this sample.

ENVIRONMENTAL LABORATORY DATA REPORT

ANALYTICAL RESULT FOR PCBs by EPA600/SR-94/112/8082
(Polychlorinated Biphenyls)
Sample Matrix: Soil (Low Level)

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTECD	DATE ANALYZED	SAMPLE DESCRIPTION
LN05932	5/20/2013	5/20/2013	5/21/2013	5/22/2013	SOIL DRUM PROFILE

PARAMETERS	MDL/PQL (mg/kg)	LN05932 (mg/kg)
PCB - 1016	0.07/0.1	ND
PCB - 1221	0.07/0.2	ND
PCB - 1232	0.07/0.2	ND
PCB - 1242	0.07/0.2	ND
PCB - 1248	0.07/0.2	ND
PCB - 1254	0.07/0.2	ND
PCB - 1260	0.07/0.2	ND
SURROGATE PARAMETERS	QC LIMIT %	% Recovery
DECACHLOROBIPHENYL	70 - 130	118

MDL - Method Detection Limit

ND - Not Detected; below method detection limit

Analyst: D. Wong

Reviewed by: 6/4/13

Project Name : LADWP Figueroa PS

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

ANALYTICAL METHOD: USEPA 600/SR-94/112
USEPA 8082

DATE ANALYZED: 05/22/13
BATCH #: 52113
LAB SAMPLE I.D.: LN05932 UNIT: mg/kg

PARAMETERS	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	% RPD LIMIT
PCB-1242	0.0	25.0	21.6	86	25.0	22.7	91	5%	70 - 130	30
PCB-1260	0.0	25.0	24.7	99	25.0	28.0	112	13%	70 - 130	30

MS - Matrix Spike *MSD - Matrix Spike Dupllicate* *RPD - Relative Percent Difference*
%MS - Percent Recovery of Matrix Spike *%MSD - Percent Recovery of Matrix Spike Duplicate*

Reviewed by: 6/4/13

Project Name : LADWP Figueroa PS

II. Laboratory Control Check Sample (LCS)

DATE ANALYZED: 05/22/13 ANALYTICAL METHOD: USEPA 600/SR-94/112

BATCH No. 052113 UNIT: mg/kg USEPA 8082

PARAMETERS		TRUE CONC	LCS1 RESULT	LCS1 % RC.	LCS2 RESULT	LCS2 % RC.	ACCEPTANCE LIMITS (%)
PCB - 1242		25.0	22.4	90	NA	NA	80 - 120
PCB - 1260		25.0	25.2	101	NA	NA	80 - 120

%RC - Percent Recovery
NA - Not Analyzed
Batch - ten samples per batch

Reviewed by: 6/4/13

060004

ATTACHMENT #6

Metals/Mercury
EPA Method 6010B/7471
Soil

Report No. C12071

CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER
ENVIRONMENTAL LABORATORY

CASE NARRATIVE

PROJECT: FIGUEROA PUMPING STATION

METHOD 6010B/7471
METALS

1. Holding Time

   Analysis met holding time criteria.

2. Blank Spike/Blank Spike Duplicate

   Spiked blank soil was analyzed in duplicate. Recoveries were within QC limits.

3. Lab Control Sample

   Laboratory control sample (certified QC soil sample) was analyzed in every batch. Recoveries were within QC acceptable limits.

4. Calibration

   Initial calibration was performed at five different concentrations. The percent relative standard and the continuing calibration check standards met QC criteria..

5. Sample Analysis

   Samples were analyzed according to the prescribed QC procedures. Sample results were below TTLC limits.

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1234

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: FIGUEROA PUMPING STATION

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN05932	5/20/13	5/20/13	5/28/13	SOIL DRUM PROFILE

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN05932 mg/kg					
Antimony	500	15	6010B	1.0	5.0	1	2.04J					
Arsenic	500	5	6010B	2.6	13.0	1	ND					
Barium	10000	100	6010B	3.7	18.5	1	76.0					
Beryllium	75	0.75	6010B	0.7	3.50	1	ND					
Cadmium	100	1	6010B	0.6	3.0	1	1.29J					
Chromium (T)	500	5	6010B	1.4	7.0	1	9.74					
Cobalt	8000	80	6010B	1.0	5.0	1	7.01					
Copper	2500	25	6010B	1.6	8.0	1	6.66J					
Lead	1000	5	6010B	0.9	4.5	1	7.78					
Molybdenum	3500	350	6010B	0.3	1.5	1	ND					
Nickel	2000	20	6010B	0.6	3.0	1	11.1					
Selenium	100	1	6010B	1.6	8.0	1	ND					
Silver	500	5	6010B	1.5	7.5	1	ND					
Thallium	700	7	6010B	1.0	5.0	1	ND					
Vanadium	2400	24	6010B	1.8	9.00	1	26.6					
Zinc	5000	250	6010B	1.9	9.50	1	34.3					
Mercury	20	0.2	7471	0.00002	0.0001	1	0.0320					

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: KC/YC

070002

PROJECT: FIGUEROA PUMPING STATION

COC 13-1234

II. Calibration and Laboratory Quality Control Check Sample (LCS)

DATE ANALYZED: 05/28/13

SUPPLY SOURCE: VHG

LOT NUMBER: 201-0040

ANALYTICAL USEPA 6010B

LAB LCS I.D.: Q8732

UNIT: (Circle One) (mg/kg) mg/L

METAL	LCS RESULTS mg/kg	TRUE VALUE mg/kg	% Recovery	Acceptable Range % Recovery
Antimony	39.9	80.0	50	48 - 84
Arsenic	291	400	73	70 - 130
Barium	289	400	72	70 - 130
Beryllium	6.7	10.0	67	70 - 130
Cadmium	7.4	10.0	74	70 - 130
Chromium (T)	57.8	80.0	72	70 - 130
Cobalt	29.5	40.0	74	70 - 130
Copper	57.2	80.0	72	70 - 130
Lead	58.5	80.0	73	70 - 130
Molybdenum	---	---	---	---
Nickel	57.9	80.0	72	70 - 130
Selenium	133	200	67	70 - 130
Silver	7.4	10.0	74	70 - 130
Thallium	62.6	80.0	78	70 - 130
Vanadium	65.0	80.0	81	70 - 130
Zinc	131	200	66	70 - 130

Analyst: KC

Reviewed by: 7/25/13

PROJECT: FIGUEROA PUMPING STATION

COC 13-1234

QA/QC Report

I. Blank Spike (BS) / Blank Spike Duplicate (BSD)

DATE ANALYZED: 05/28/13

ANALYTICAL METHOD USEPA 6010B

BATCH #: (LN05932)

LAB SAMPLE I.D.: BLANK SOIL

UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	BS	%BS	(DUP) SPIKE CONC	BSD	%BSD	RPD	BS/BSD % REC. LIMIT	RPD LIMIT
Antimony	ND	200	89.4	44.7	200	92.0	46.0	2.9%	14 - 89	< 30
Arsenic	ND	200	142	71.0	200	146	73.0	2.8%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	133	66.5	200	135	67.5	1.5%	70 - 130	< 30
Cadmium	ND	200	134	67.0	200	137	68.5	2.2%	70 - 130	< 30
Chromium (T)	ND	200	141	70.5	200	144	72.0	2.1%	70 - 130	< 30
Cobalt	ND	200	141	70.5	200	144	72.0	2.1%	70 - 130	< 30
Copper	ND	200	141	70.5	200	143	71.5	1.4%	70 - 130	< 30
Lead	1.3	200	139	69.5	200	141	70.5	1.4%	70 - 130	< 30
Molybdenum	0.36	200	139	69.5	200	142	71.0	2.1%	70 - 130	< 30
Nickel	1.0	200	141	70.5	200	143	71.5	1.4%	70 - 130	< 30
Selenium	ND	200	131	65.5	200	133	66.5	1.5%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	118	59.0	200	121	60.5	2.5%	70 - 130	< 30
Vanadium	5.3	200	148	74.0	200	152	76.0	2.7%	70 - 130	< 30
Zinc	2.2	200	132	66.0	200	133	66.5	0.8%	70 - 130	< 30

BS = Blank Spike BSD = Blank Spike Duplicate RPD = Relative Percent Difference

%BS = Percent Recovery of Blank Spike %BSD = Percent Recovery of Blank Spike Duplicate

Analyst: KC