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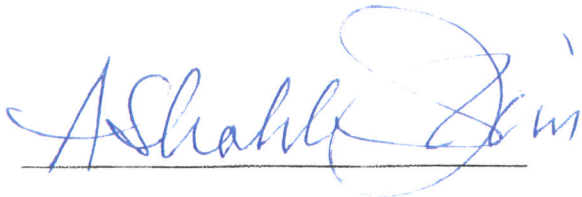
Alameda County
Environmental Health

Certification Statement

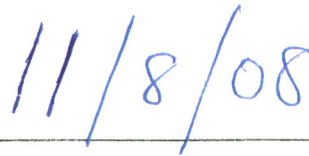
Environmental Site Investigation Report

**California Highway Patrol – Oakland
3601 Telegraph Avenue
Oakland, California**

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.



Mr. A. K. Jain
California Department of General Services
RES/PSB/Seismic & Special Programs



Date



November 14, 2008
File No. 92451-1

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Mr. Jerry Wickham
Alameda County Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Subject: Environmental Site Investigation Report
California Highway Patrol – Oakland
3601 Telegraph Avenue, Oakland, California, 94609**

Dear Mr. Wickham:

Attached is Kleinfelder's report describing the sampling activities and analytical results for the September 9 through 11, 2008, soil and groundwater investigation performed at the California Highway Patrol – Oakland facility located at 3601 Telegraph Avenue, Oakland, California. The objectives of this investigation included the following: (1) assessing the presence and extent of potential lead-impacted soil and groundwater associated with a demolished gun range building; and (2) further assessment of potential petroleum hydrocarbon impacts to soil and groundwater associated with an underground storage tank (UST) used to fuel patrol vehicles.

The dual investigations (lead and hydrocarbons) were conducted in conjunction with one another for efficiency. The lead investigation was conducted first, on September 9, 2009. The hydrocarbon investigation was conducted on September 10 and 11. Soil samples were collected using a direct push (Geoprobe™) rig and continuous cores. Groundwater was sampled using polyvinyl chloride (PVC) temporary screened wells with single-use screens placed into direct push borings.

During the lead investigation, thirty soil and two groundwater samples were submitted for the analysis of total lead. During the petroleum hydrocarbon investigation, five soil and seventeen groundwater samples were collected and analyzed for gasoline and gasoline-related constituents. The five soil samples also were analyzed for total lead to supplement the lead investigation. Detected concentrations were compared with the regulatory screening levels in the following documents:

- California Human Health Screening Levels (CHHSLs) for Soil (January 2005, Table 1), and
- San Francisco Bay Region – Regional Water Quality Control Board Screening Levels for Environmental Concerns at Sites with Contaminated Soil and Groundwater (ESLs) – Interim Final November 2007. Updated May 2008 (May 2008, Table B).

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This report includes the description of the soil and groundwater sampling field activities for ten soil borings in the footprint of the former gun range building, eight groundwater sample borings in and around the former UST area, analytical results for soil and groundwater samples, and conclusions based on the results.

This report is submitted for your review and consideration. If you have any questions regarding the report, please do not hesitate to contact us at 916-366-1701.

Sincerely,

KLEINFELDER WEST, INC.



Pamela A. Wee, D. Env.
Environmental Group Manager



Sue Gardner, P.G.
Project Geologist

cc: Mr. A.K. Jain, State of California, Department of General Services
Ms. Elizabeth DePaola, California Highway Patrol, Facilities Section
Lt. Mike Sherman, California Highway Patrol, Oakland Area



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707 3rd Street, Suite 4-430
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**Subject: Environmental Site Investigation Report
California Highway Patrol – Oakland
3601 Telegraph Avenue, Oakland, California, 94609**

Dear Mr. Jain:

This report describes the sampling activities and analytical results for the September 9 through 11, 2008 soil and groundwater investigation performed at the California Highway Patrol (CHP) – Oakland facility located at 3601 Telegraph Avenue, Oakland, California (Plate 1). The objectives of this investigation included the following: (1) assessing the presence and extent of remaining lead impacted soil and groundwater associated with a demolished gun range building at the CHP Oakland facility; and (2) further assessing the petroleum hydrocarbon impacts to soil and groundwater associated with an underground storage tank (UST) located at the facility.

This report presents descriptions of the direct push (Geoprobe™) soil and groundwater sampling for ten borings in the former building pad area, eight groundwater sample borings in the former UST area, analytical results for soil and groundwater samples, and conclusions based on the results.

BACKGROUND

Lead

A shooting range building was present at the CHP Oakland facility until demolition in June 2006. During demolition, approximately ten inches of lead-contaminated soil were removed. Analytical results for lead in confirmation samples collected during demolition activities suggested that remaining soils might be impacted by residual lead concentrations. In October 2006, at the request of the California Department of General Services (DGS), Kleinfelder

developed a sampling plan for further site investigation to assess the potential presence of residual lead concentrations at the site.

In January 2007, Kleinfelder conducted soil and groundwater lead sampling using direct push technology in the footprint of the demolished shooting range building. Lead was not detected above laboratory reporting limits in the groundwater samples submitted for analysis. Lead was detected in soil samples at concentrations ranging from 4.22 mg/kg to 562 mg/kg. Kleinfelder reported the results of the January 2007 site investigation in a report dated March 26, 2007 (*Soil and Groundwater Investigation Report, California Highway Patrol – Oakland, 3601 Telegraph Avenue, Oakland, California, SAC/7R168*).

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In a November 21, 2007 letter, Alameda County Department of Environmental Health (ACEH) requested that additional sampling be conducted to further assess and delineate the extent of lead impacts at the site. Additionally, ACEH requested that a scaled map showing area of excavation, former building foundation, types of surfaces (asphalt, concrete, bare ground, etc.) and the 2006 soil sampling locations be prepared and submitted to them. A work plan, which included a proposal for further sampling, and the requested scaled map were submitted by Kleinfelder to ACEH in May 2008. The Work Plan was approved by Mr. Jerry Wickham (ACEH regulator) in a letter dated July 11, 2008.

Petroleum Hydrocarbons

A UST at the site was upgraded in March 1997. A soil sample analyzed during upgrade activities indicated that hydrocarbon impact may have occurred. In January 2007, Kleinfelder conducted sampling of soil and groundwater in the vicinity of the former UST in conjunction with the aforementioned January 2007 direct push lead sampling investigation. Gasoline and methyl tertiary butyl ether (MTBE), a fuel oxygenate, were detected in groundwater samples analyzed during the January 2007 investigation.

Kleinfelder reported the results of the January 2007 site investigation in a report dated March 26, 2007 (*Soil and Groundwater Investigation Report, California Highway Patrol – Oakland, 3601 Telegraph Avenue, Oakland, California, SAC/7R168*).

In a November 21, 2007 letter ACEH requested a work plan for further site investigation. A site investigation work plan for sampling to further assess potential hydrocarbon impacts to soil and/or groundwater was submitted by Kleinfelder to ACEH in May 2008. The Work Plan was approved by Mr. Jerry Wickham (ACEH regulator) in a letter dated July 11, 2008.

The approved work plan for the lead and hydrocarbon sampling was implemented on September 9, 10, and 11, 2008. This report presents the field activities, analytical results and conclusions based on the results for the September 2008 site investigations.

SITE INVESTIGATION

Pre Field Activities

Prior to conducting subsurface activities, Kleinfelder conducted a site visit to coordinate field activities with CHP site personnel, and to evaluate site conditions and direct push rig access. Proposed boring locations were marked with white paint and Underground Service Alert (USA) was notified of the upcoming work so underground utilities could be located and marked by subscribing utility companies. Additionally, Kleinfelder contracted a private underground utility locator (Subdynamic Locator Services) to evaluate potential subsurface utilities prior to penetration of the subsurface. On September 3, 2008, a Subdynamic Locator Services technician met with Kleinfelder representatives, conducted the utility survey, and marked the cleared boring locations with white paint. Kleinfelder also met with CHP personnel to clear borings prior to starting field work.

Prior to conducting the subsurface investigation, Kleinfelder prepared and submitted a boring permit, along with the required fees, to ACEH. The permit was approved on August 12, 2008. A copy of the approved Alameda County permit is included in Appendix A.

Field Activities

Soil and groundwater samples for both investigations were collected using a direct push sampling rig. To advance these borings, Kleinfelder contracted the services of Vannucci Technologies of Woodland, California. As required by ACEH, Vannucci is a C-57 licensed contractor. A Kleinfelder geologist logged and classified the soil using the Unified Soil Classification System and standard geologic techniques. Copies of Kleinfelder's boring logs and soil identification key sheets are included in Appendix B.

A total of 18 borings were advanced over a three day period. Ten borings were advanced for the primary purpose of investigating potential lead impacts, and eight borings were advanced for hydrocarbons. Nine of the 18 borings were advanced into a level graded former building pad with tan and light gray silty gravel and dry vegetation. The soils encountered below the silty gravel (GM) generally consisted of clayey gravel (GC) fill material with some concrete and brick rubble to approximately five feet below ground surface (bgs). The fill material was underlain by brown clayey gravel (GC) interbedded with gray to olive lean clay (CL). Nine borings were advanced into a parking lot paved with approximately 4 inches of asphalt concrete (AC). The AC was underlain by approximately 6 inches of aggregate base (AB) consisting of sand, silt and gravel. Soil encountered under the AB consisted predominantly of silty and lean clay (CL) to depths of approximately 12 to 16 feet bgs. The clay was typically underlain by sand-gravel mixtures with some silty and poorly graded sand or gravel lenses.

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Soil samples were obtained from the borings by advancing a Geoprobe Macrocore™ sampler. This consisted of a 1.75-inch-diameter hollow rod with new plastic liners (single-use) inside. The probe was pushed through a 5-foot interval while the soil was collected and contained inside the plastic liner. Sections submitted for analysis were sealed with Teflon tape, capped, labeled, and placed in a cooler with pending transfer to the analytical laboratory.

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Groundwater samples were collected from the temporary PVC wells using new, disposable poly tubing with a ball check valve at one end. The water was pumped into bottles prepared by the analytical laboratory. These bottles were sealed, labeled, and placed in a cooler with ice pending transfer to the analytical laboratory.

To reduce the potential for cross-contamination between the direct push borings, the rods and sampling equipment were cleaned prior to advancing each boring. After completion, the borings were backfilled to ground surface with cement/bentonite grout in accordance with permit requirements. Kleinfelder scheduled a grout inspection with ACEH for each day of drilling/sampling and an ACEH representative was on-site for observation at various times.

Copies of Kleinfelder's Instrument Calibration Logs, XRF Sample Screening Data, Sample Data Sheets and Field Observation Data Sheet are presented in Appendix C.

Lead Sampling

Kleinfelder conducted soil sampling to further assess the horizontal and vertical extent of lead impacts in the footprint of the former shooting range building. During the January 2007 site investigation samples from the south side of the former building were collected and analyzed. The November 21, 2007 ACEH letter posed questions regarding other potential areas where lead may have accumulated. To address these concerns, nine sample locations were selected from the north side and midsection of the former shooting range building pad, with one sample location selected outside the pad of the former building for comparison (background) purposes. To aid in the selection of the boring locations, Kleinfelder used a Nitron X-ray Fluorescence (XRF) analyzer (screening tool) to screen surface soil for lead. Direct push borings were advanced to an approximate depth of five feet bgs at locations indicated on Plate 2.

Three soil samples from each of the ten lead borings were submitted for laboratory analysis (30 samples). An additional five soil samples from the September 10-11 hydrocarbon investigation were also submitted for lead analysis (for a total of 35 samples). The soil samples were submitted under chain-of-custody to Kiff Analytical of Davis, California for the following analysis:

- Total lead (EPA Test Method 6010B)

In two of the ten lead sample locations, borings were advanced to first encountered groundwater (approximately 20 to 25 feet). One groundwater sample was obtained from each of these borings and sent to the laboratory for both lead and petroleum hydrocarbon analyses. These particular locations were sampled due to their distance and direction from the former UST. The groundwater samples were analyzed for the following compounds:

- TPH as gasoline (EPA 8260B)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) (EPA 8260B)
- Five Fuel Oxygenates (EPA 8260B)
- 1,2-DCA and EDB (EPA 8260B)
- Total lead (EPA 200.8)

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) maintain electronic data files available for public review for UST sites (an ftp site). Kleinfelder will submit the required electronic data to the Alameda County site.

Petroleum Hydrocarbons Investigation

Following the lead sampling investigation, Kleinfelder conducted soil and groundwater sampling at the site for investigation of petroleum hydrocarbon impacts associated with a formerly leaking UST. Data from Kleinfelder's previous (January 2007) site investigation were used to assist in selection of boring locations. A total of eight borings (GB-16 through GB-23) were advanced to evaluate the horizontal and vertical extent of impact. These boring locations are illustrated on Plate 3. The borings were drilled to the following depths:

- Borings GB-16 and GB-20 were drilled to 35 feet bgs
- Borings GB-17, GB-19, GB-21 and GB-23 were drilled to 30 feet bgs
- Boring GB-18 was drilled to 25 feet bgs
- Boring GB-22 was drilled to a depth of 40 feet bgs

Discrete groundwater sampling was requested by ACEH for the purpose of assessing groundwater at varying depths in varying locations. The information obtained from analyses of depth-discrete groundwater samples would be used, if necessary, for groundwater monitoring well design and placement. Kleinfelder's May 14, 2008 Work Plan proposed to collect three discrete groundwater samples from each boring at anticipated depths of 15, 20 and 25 feet bgs unless the boring was terminated due to refusal or samples could not be collected due to lack of groundwater. In one boring suspected of being located in proximity to a possible source of petroleum hydrocarbons, Kleinfelder proposed to collect groundwater samples at 15, 20, 25, 30 and 35 feet bgs, if possible.

In accordance with the approved May 14, 2008 Work Plan, discrete groundwater samples were collected at first encountered groundwater and at five foot intervals where possible. Groundwater was not encountered at 15 feet bgs in any of the borings. Groundwater was not encountered at 20 feet bgs in seven of the eight borings (except for GB-17). The table below shows the depths where water was encountered in sufficient volume for sample collection in each of the eight borings, GB-16 through GB-23.

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Groundwater Sampling Table					
Boring Id/Total Depth	20 feet bgs	25 feet bgs	30 feet bgs	35 feet bgs	40 feet bgs
GB-16 (35 feet)	dry	dry	sampled	sampled	-----
GB-17 (30 feet)	sampled	dry	dry	-----	-----
GB-18 (25 feet)	dry	sampled	-----	-----	-----
GB-19 (30 feet)	dry	sampled	sampled	-----	-----
GB-20 (35 feet)	dry	sampled	sampled	dry	-----
GB-21 (30 feet)	dry	sampled	sampled	-----	-----
GB-22 (40 feet)	dry	sampled	sampled	dry	sampled
GB-23 (30 feet)	dry	sampled	sampled	-----	-----

The method used to collect discrete groundwater samples is described below:

- The sampler was pushed by five foot intervals until groundwater was first observed. The probe hole was allowed to sit open for approximately 10-15 minutes to allow the groundwater elevation to equilibrate. A sounder was used to check for the presence and approximate volume of free groundwater.
- If groundwater was present, groundwater samples were collected from the temporary PVC wells using new, disposable poly tubing with a ball check valve at one end. The water was pumped into bottles prepared by the analytical laboratory. These bottles were sealed, labeled, and placed in a cooler with ice pending transfer to the analytical laboratory.
- If groundwater was not present, the probe hole was deepened by five foot increments and the process was repeated at each interval.
- Following collection of the initially observed groundwater, each boring (except for the final sampling in boring GB-22) was advanced another five feet and the process was repeated.

Borings GB-16 through BG-20, and boring GB-23 were advanced to evaluate the lateral extent of potential hydrocarbon impact. Boring GB-22 was advanced to assess the vertical extent of impact. A total of thirteen groundwater samples was collected during the hydrocarbon portion of the sampling investigation. (Note:

two groundwater samples collected during the lead sampling investigation are in addition to the samples mentioned above. Including these samples, a total of 15 groundwater samples were analyzed for gasoline and lead related constituents.) Boring and sampling locations are presented in Plate 2.

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One soil sample each from five of the eight boring locations was selected for chemical analyses. A photoionization detector (PID) was used to provide a qualitative screening of each boring. The PID measures ionizable compounds in the air in parts per million by volume (ppmv), and aids in the selection of samples to be submitted for laboratory analysis. PID readings were recorded on field logs and data sheets, except for the samples collected on September 09, 2008 when the PID was not available. Soil sample selections were based on field screening criteria such as odor, staining, and PID readings where available.

The soil and groundwater samples were stored in a cooler with ice throughout the day, and then transported to Kiff Labs to be analyzed for the following constituents using the cited test methods:

- TPH-gasoline (EPA 8260B)
- BTEX (EPA 8260B)
- 5 Fuel Oxygenates (EPA 8260B)
- 1,2-DCA and EDB (EPA 8260B)
- Total (soil) or dissolved (groundwater) lead (EPA 6010B)

ANALYTICAL RESULTS

Results of the chemical analyses of the samples indicated the following:

Lead in Soil Samples

Thirty-five soil samples (30 from lead borings, five from hydrocarbon borings) were submitted for total lead analyses. Total lead was detected in all 35 of the samples in concentrations ranging from 0.77 mg/kg (LB-1 at 2 feet bgs) to 910 mg/kg (LB-2 at 5 feet bgs). Table 1 summarizes the lead concentrations detected in soil samples. Copies of chain-of-custody and analytical laboratory reports are included in Appendix D.

Lead in Groundwater Samples

Seventeen groundwater samples (two from lead borings, 15 from hydrocarbon borings) were submitted for total lead analysis in groundwater. Lead was not detected above laboratory reporting limits in the groundwater samples (refer to Table 2 and Appendix D).

Hydrocarbons in Soil Samples

Five soil samples (from hydrocarbon borings) were submitted for potential concentrations of gasoline and other related petroleum hydrocarbons. TPH-gasoline, BTEX and fuel oxygenates were not detected above laboratory reporting limits in the five soil samples (refer to Table 3 and Appendix D).

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Hydrocarbons in Groundwater Samples

Seventeen groundwater samples (two from lead borings, 15 from hydrocarbon borings) were submitted to test for potential concentrations of gasoline and other related hydrocarbons. TPH-gasoline, BTEX and fuel oxygenates were not detected above laboratory reporting limits in the groundwater samples (refer to Table 2 and Appendix D).

Analytical results for soil and groundwater samples collected during this investigation were compared to the San Francisco Bay Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESLs) (RWQCB 2008). The ESLs are considered to be conservative values. The concentrations of chemicals below the corresponding ESLs can be assumed to not pose a significant, chronic threat to human health or the environment. The ESLs referenced were for residential sites (due to the close proximity of residences) and for commercial/industrial sites where groundwater is a current or potential source of drinking water. The local drinking water source is not local groundwater; a municipal water system supplies drinking water.

CONCLUSIONS AND RECOMMENDATIONS

- Soil and groundwater sampling was conducted to evaluate potential impacts to soil and/or groundwater associated with two areas of concern: 1) lead deposition from a former gun range building, and 2) gasoline leakage from an underground storage tank.
- The September 2008 sampling event was conducted at the request of ACEH as a follow up to an investigation conducted by Kleinfelder during January 2007.

Lead Investigation

The analytical results from the current investigation were combined with past results for the purpose of calculating an upper confidence limit (UCL) on the mean soil concentration. The purpose of calculating the UCL is to compare a conservative estimate of the mean soil concentration to the ESL and CHHSL. The upper 3.5 feet of soil were considered separately from the subsurface soil (> 3.5 ft bgs) because of the likely mechanism of lead deposition (i.e., from gun range activities), and different likely exposure pathways. Details of the UCL calculation are presented in Appendix E.

The subsurface soil data include a statistical outlier result of 910 mg/kg in sample LB-2-5, collected at a depth of 5 feet bgs. (Refer to the discussion in Appendix E.) The result may be anomalous. It is possible, though less likely considering the depth, that the result is related to a localized area of lead impact. In either case, the result statistically is an outlier at the 1% significance level, and consequently does not represent the average soil characteristics. The UCL for subsurface soil was calculated omitting this value. The calculated mean lead concentration in subsurface soil is 26 mg/kg. The calculated UCL for subsurface soil is 117 mg/kg. The calculated mean lead concentration for near-surface soil is 59 mg/kg. The calculated UCL for near-surface soil is 215 mg/kg.

No pathway exists for exposure of receptors to subsurface soil under the residential scenario. Consequently, the residential ESL and CHHSL are inappropriate. Kleinfelder recommends comparing the subsurface soil concentrations to the commercial/industrial ESL for lead, which is 750 mg/kg. The current site use is commercial, the property owner is the State of California, and no foreseeable residential land use is likely.

For near-surface soil, the residential CHHSL is not appropriate because the value is based on the risk associated with ingesting plants that have taken up lead from the soil. The residential ESL is 200 mg/kg, based on urban area ecotoxicity. However, the only exposure pathway that is pertinent for residential receptor exposure is inhalation of windborne particulate. According to the RWQCB ESLs document, the commercial/ industrial ESL accounts for off-site residential receptor exposure to windborne dust originating from a commercial/industrial site (RWQCB, 2008; p. 6-11, ¶ 3). Consequently, the commercial/industrial ESL should be protective and should be used in lieu of the residential ESL.

The calculated UCLs for lead concentrations for both near-surface and subsurface soil are below the commercial/industrial ESL of 750 mg/kg. It is Kleinfelder's opinion that lead distribution has been characterized and that no further action is required with respect to investigation or remediation.

Petroleum Hydrocarbon Investigation

In 1997, during upgrade of the CHP gasoline UST, a soil sample that was analyzed indicated that a potential gasoline leak had occurred. During Kleinfelder's January 2007 site investigation, gasoline, BTEX and MTBE were detected in groundwater samples collected from six borings. At the request of ACEH, Kleinfelder conducted additional sampling at the site in September 2008 to assess and potentially delineate the extent of hydrocarbon impact at the site. The following summarizes the September 2008 hydrocarbon investigation findings:

- Eight borings were advanced in the vicinity of the reported hydrocarbon impact during Kleinfelder's September 2008 site investigation.

- Five soil samples from the eight hydrocarbon borings were submitted for analyses. Gasoline and related hydrocarbon constituents were not detected above laboratory reporting limits in the five samples.
- Fifteen groundwater samples from the hydrocarbon borings were submitted for analyses. An additional two groundwater samples from the lead borings were submitted for analyses, along with the 15 hydrocarbon boring samples. Therefore, a total of 17 groundwater samples were analyzed for the presence of hydrocarbons.
- With the exception of one low level detection of total xylenes in boring GB-21 (0.53 $\mu\text{g/L}$), TPH as gasoline, BTEX and four of the five fuel oxygenates (DIPE, ETBE, TAME and TBA) were not detected above laboratory reporting limits in the 17 groundwater samples.
- The ESL ceiling value for taste and odor, where groundwater is not considered a current or potential source of drinking water, is 100 $\mu\text{g/L}$. (The value where drinking water is a current or potential source of drinking water is 20 $\mu\text{g/L}$.) Therefore, the low level concentrations of xylenes detected in boring GB-21 do not exceed the ESL.
- Low levels of MTBE were reported in six of the 17 groundwater samples analyzed. Concentrations ranged from 0.57 $\mu\text{g/L}$ (GB-16 at 30 feet bgs) to 3.0 $\mu\text{g/L}$ (GB-18 at 25 feet bgs). The ESL ceiling value taste, odor and appearance concerns for MTBE, where groundwater is not considered a current or potential source of drinking water, is 1800 $\mu\text{g/L}$. (The value where drinking water is a current or potential source of drinking water is 5.0 $\mu\text{g/L}$.) MTBE concentrations in groundwater samples analyzed during the September 2008 site investigation do not exceed the ESL.
- During the January 2007 site investigation, gasoline was detected in boring CHP-8 at a concentration of 4,300 $\mu\text{g/L}$. The depth-to-groundwater in boring CHP-8 was approximately 18.5 feet bgs. During the September 2008 site investigation, one boring (GB-22) was advanced approximately 5 feet to the east of CHP-8. In September 2008 groundwater was initially encountered at a depth of approximately 25 feet bgs. Gasoline was not detected in three groundwater samples submitted from GB-22 (25 feet, 30 feet and 40 feet). Therefore, Kleinfelder concludes that hydrocarbon impact from the leaking UST appears to be present above 25 feet bgs. (Note: tables and plates from previous sampling investigations are presented in Appendix F)

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Kleinfelder has been informed by DGS that the UST present at CHP Oakland site is scheduled for removal and replacement by an above ground storage tank (AST) to be placed on the pad for the former gun range building. The construction of the AST has been placed on hold pending completion of Kleinfelder's sampling of the gun range pad soils for potential lead impact. This report recommends that ACEH allow construction activities to proceed.

Following ACEH approval, DGS plans to commence with the UST removal and AST installation. Kleinfelder recommends that oversight during tank removal activities include air monitoring for the protection of construction personnel and sampling of the tank pit sidewalls and bottom (soil and groundwater, if present). Kleinfelder recommends that DGS and ACEH evaluate potential monitoring and/or remediation options following UST removal construction and sampling activities.

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The State Water Resources Control Board UST Program – AB2886 requires electronic submittal of data associated with UST sites, which includes (but is not limited to) well survey data, analytical results, water level data, maps, and boring logs. Kleinfelder electronically submitted analytical results and water level data to the SWRCB through Geotracker. Confirmation numbers for the submittals as shown in Geotracker are included in Appendix G.

LIMITATIONS

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Northern California at this time. This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance, but in no event later than one (1) year from the date of the report. All information gathered by Kleinfelder is considered confidential and will be released only upon written authorization of the client or as required by law. Non-compliance with any of these requirements by the client or anyone else, unless specifically agreed to in advance by Kleinfelder in writing, will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

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 are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. Although risk can never be eliminated, more-detailed and extensive investigations yield more information, which may help understand and manage the level of risk. Since detailed investigation 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 investigations or field tests, may be performed to reduce uncertainties. Acceptance of this report will indicate that the client 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 be discovered. Kleinfelder will assume 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 project 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. The client will be solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. The client will be responsible for all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.


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Regulations and professional standards applicable to Kleinfelder's services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide the client with a source of professional advice, opinions and recommendations. Our professional opinions and recommendations are based on our limited number of field observations and tests, collected and performed in accordance with the generally accepted engineering practice that exists at the time and may depend on, and be qualified by, information gathered previously by others and provided to Kleinfelder by the client. Consequently, no warranty or guarantee, expressed or implied, is intended or made.


If you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,
KLEINFELDER WEST, INC.


Susan E. Gardner, P.G.
Project Geologist




Mike Lawson, P.E.
Senior Engineer


Brian Honea
Staff Geologist

Plates

- 1 – Site Location Map
- 2 – Site Diagram and Lead Sampling Locations Map
- 3 – Site Diagram and Hydrocarbon Sampling Locations Map

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Tables

- 1 – Lead Investigation – Summary of Analytical Results
- 2 – Summary of Analytical Results - Water
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Appendices

- A Alameda County Well Permit
- B Boring Logs
- C Sample Data Sheets
- D Chain-of-Custody Forms and Laboratory Analytical Reports
- E Calculation of Soil Upper Confidence Limit
- F Tables from Previous Site Investigations
- G Geotracker Confirmation Submittal Sheets

References

San Francisco Bay Region – Regional Water Quality Control Board Screening Levels for Environmental Concerns at Sites with Contaminated Soil and Groundwater (ESLs) – Interim Final November 2007. Updated May 2008 (May 2008, Table E-2 and F-1).


California Human Health Screening Levels for Soil California EPA, January 2005, Table 1.

PLATES



Aerial: USGS, 2003

0 100 200
 Feet
 1 inch = 200 feet

 <p>KLEINFELDER <i>Bright People. Right Solutions.</i> www.kleinfelder.com</p>	PROJECT NO. 92451-1	SITE LOCATION MAP	PLATE 1
	DRAWN: 5/13/08		
	DRAWN BY: IPM	CALIFORNIA HIGHWAY PATROL - OAKLAND 3601 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	
	CHECKED BY: SG		
FILE NAME: 92451_SITE.MXD			



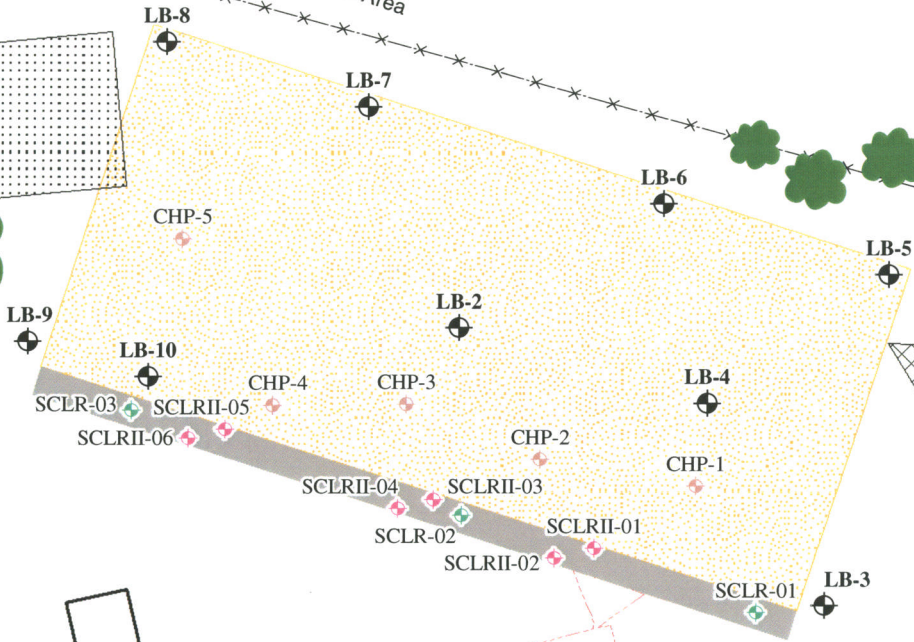
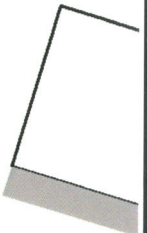
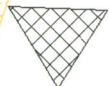
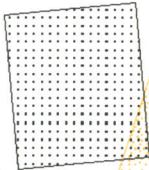
Elevated Ramp HWY 24 North

Landscaped Area

Carports

Electrical
Storage Area

Residential Area

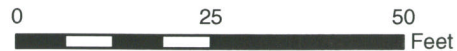


Legend

- LB1-9, September 2008
- CHP1-5, January 2007
- SCLRII-01-06, June, 2006
- SCLR-01-03, May, 2006

Fence

Parking



1 inch = 25 feet



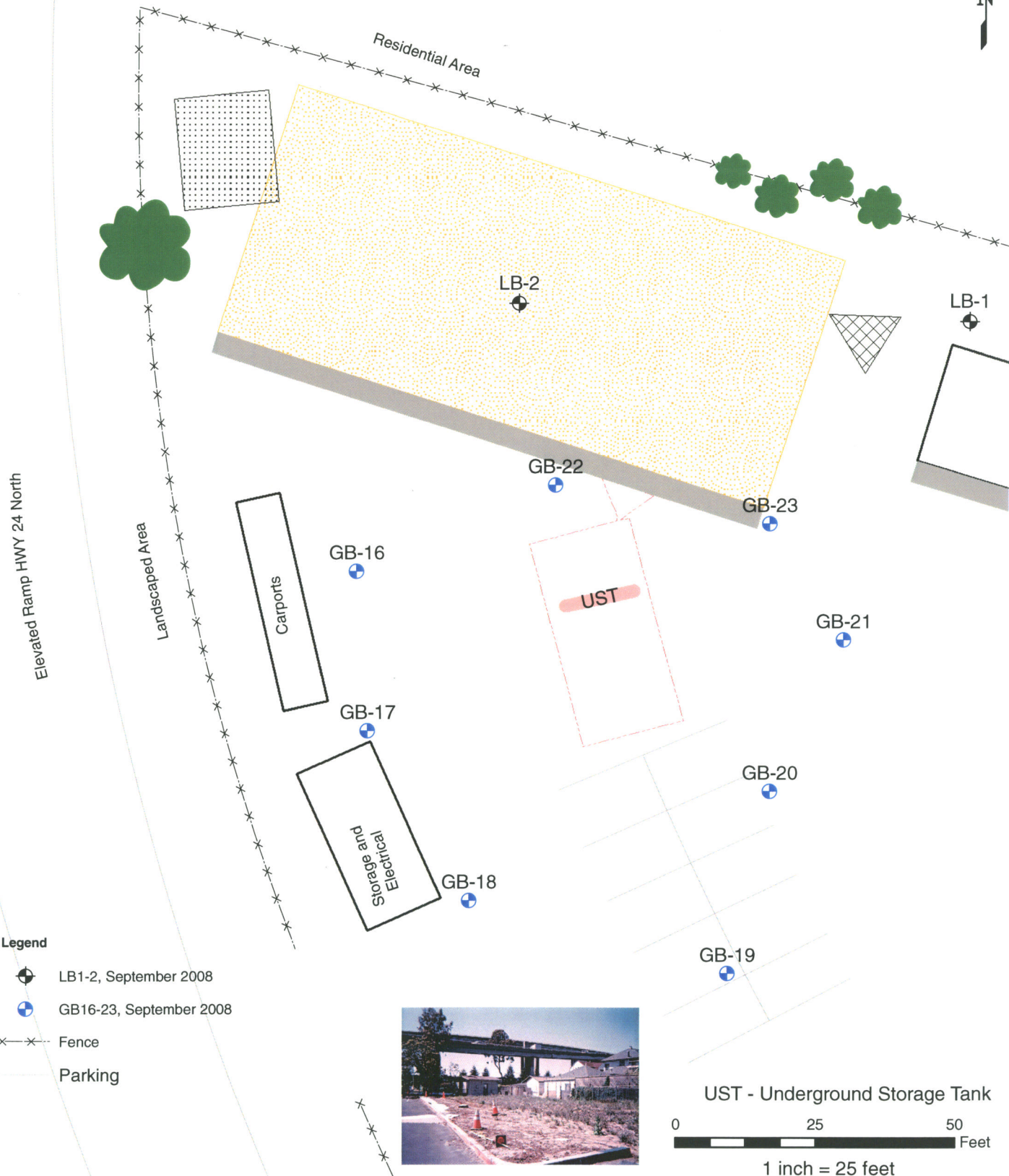
PROJECT NO.	92451-1
DRAWN:	5/13/08
DRAWN BY:	IPM
CHECKED BY:	SG
FILE NAME:	92451_LEAD.MXD

LEAD SAMPLING LOCATIONS MAP





CALIFORNIA HIGHWAY PATROL - OAKLAND
3601 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

PLATE

2



Legend

-  LB1-2, September 2008
-  GB16-23, September 2008
-  Fence
-  Parking



UST - Underground Storage Tank

0 25 50 Feet

1 inch = 25 feet



PROJECT NO.	92451-1
DRAWN:	5/13/08
DRAWN BY:	IPM
CHECKED BY:	SG
FILE NAME:	92451_LEAD.MXD

HYDROCARBON SAMPLING LOCATIONS MAP

CALIFORNIA HIGHWAY PATROL - OAKLAND
3601 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

PLATE

3

TABLES

Table 1
Lead Investigation
Summary of Analytical Results
California Highway Patrol Facility
3601 Telegraph Avenue, Oakland, California
Kleinfelder Project No.: 92451

Boring ID	Sample Date	Sample ID	Depth Interval (feet)	XRF ^{Note 1} (mg/Kg)	Total Lead ^{Note 2} (mg/kg)	Soluble Lead ^{Note 3} (mg/L)
California Human Health Screening Levels for Shallow Soils (mg/kg) Residential Land Use ^{Note 4}					150 mg/kg	NA
California Regional Water Quality Control Board, SF Bay RWQCB ESLs for Shallow Soils (mg/kg) ^{Note 5}					Residential Land Use - 200 mg/kg Commercial Land Use - 750 mg/kg	NA
LB-1 Soil	9/9/08	LB-1-2	0 - 2	5.9	0.77	NA
		LB-1-3.5	2 - 3.5	ND (<5)	ND (<0.50)	NA
		LB-1-5	4 - 5	ND (<5)	7.7	NA
LB-2 Soil	9/9/08	LB-2-2	0 - 2	ND (<5)	9.0	NA
		LB-2-4	3 - 4	105.5	220	NA
		LB-2-5	4 - 5	31.5	910	28.1 by citrate buffer and ND (<0.100) by DI Wet
LB-3 Soil	9/9/08	LB-3-2	0 - 2	ND (<5)	76	NA
		LB-3-4	3 - 4	16.5	19	NA
		LB-3-5	4 - 5	ND (<5)	5.9	NA
LB-4 Soil	9/9/08	LB-4-2	0 - 2	43.3	99	NA
		LB-4-4	3 - 4	ND (<5)	14	NA
		LB-4-5	4 - 5	ND (<5)	58	NA
LB-5 Soil	9/9/08	LB-5-2	0 - 2	20.8	79	NA
		LB-5-4	3 - 4	ND (<5)	6.3	NA
		LB-5-5	4 - 5	ND (<5)	8.5	NA
LB-6 Soil	9/9/08	LB-6-2	0 - 2	22.1	120	NA
		LB-6-4	3 - 4	ND (<5)	13	NA
		LB-6-5	4 - 5	29.5	10	NA
LB-7 Soil	9/9/08	LB-7-2	0 - 2	31.3	40	NA
		LB-7-4	3 - 4	18.0	4.5	NA
		LB-7-5	4 - 5	ND (<5)	11	NA
LB-8 Soil	9/9/08	LB-8-2	0 - 2	18.1	32	NA
		LB-8-4	3 - 4	ND (<5)	8.3	NA
		LB-8-5	4 - 5	16.4	10	NA
LB-9 Soil	9/9/08	LB-9-2	0 - 2	ND (<5)	61	NA
		LB-9-4	3 - 4	ND (<5)	14	NA
		LB-9-5	4 - 5	ND (<5)	56	NA
LB-10 Soil	9/9/08	LB-10-2	0 - 2	32.3	130	NA
		LB-10-4	3 - 4	ND (<5)	10	NA
		LB-10-5	4 - 5	12.9	53	NA
GB-16 Soil	9/10/08	GB-16-4-5	4 - 5	NA	3.93	NA
GB-18 Soil	9/10/08	GB-18-4-5	4 - 5	NA	6.42	NA
GB-20 Soil	9/11/08	GB-20-13.5	13.5 - 15	NA	5.11	NA
GB-21 Soil	9/11/08	GB-21-3-4	3 - 4	NA	5.17	NA
GB-22 Soil	9/10/08	GB-22-4-5	4 - 5	NA	4.10	NA
Groundwater Samples						
LB-1	9/9/08	LB-1	NA	NA	ND (<0.001)	NA
LB-2	9/9/08	LB-2	NA	NA	ND (<0.001)	NA

Note 1: XRF: Nitron X-ray Fluorescence. XRF is field measurement and is not intended to produce laboratory quality results.

Note 2: Soil samples were analyzed by EPA Test Method 6010B. Groundwater samples were analyzed by Method 200.8.

Note 3: Analyses for solubility were performed twice, by EPA Test Method 6010B (citrate buffer) and by EPA Test Method 6010B -(DI Wet Test)

Note 4: California Environmental Protection Agency, CHHSLs, January 2005. Table 2.

Note 5: Environmental Screening Level (ESL) for groundwater, established by Region 2 California Regional Water Quality Control Board - SF Bay Region ESLs, May 2008. Table B. Shallow soils.

NA: Does not apply, not tested for the listed constituent

ND: Not detected above the laboratory reporting limit

ug/kg: Micrograms per kilogram (parts per billion)

mg/kg: Milligrams per kilogram (parts per million)

TPH: Total Petroleum Hydrocarbons

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

Table 2
Summary of Analytical Results - Water
CHP Oakland
Kleinfelder Project No.: 92451

Boring ID	Sample ID	Sample Date	Depth (feet)	TPH-Gasoline (ug/L)	BTEX (ug/L)	Fuel Oxygenates (ug/L)	Total Lead (mg/L)
Lead Borings							
LB-1	LB-1	9/9/08	20	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
LB-2	LB-2	9/9/08	25	ND (<50)	ND(< 0.50)	MTBE 0.65	ND (<0.001)
Hydrocarbon Borings							
GB-16	GB-16-30	9/10/08	30	ND (<50)	ND(< 0.50)	MTBE 0.57	ND (<0.001)
	GB-16-35	9/10/08	35	ND (<50)	ND(< 0.50)	MTBE 0.90	ND (<0.001)
GB-17	GB-17-20	9/9/08	20	ND (<50)	ND(< 0.50)	MTBE 0.84	ND (<0.001)
GB-18	GB-18-25	9/10/08	25	ND (<50)	ND(< 0.50)	MTBE 3.0	ND (<0.001)
GB-19	GB-19-25	9/11/08	25	ND (<50)	ND(< 0.50)	MTBE 0.61	ND (<0.001)
	GB-19-30	9/11/08	30	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
GB-20	GB-20-25	9/11/08	25	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
	GB-20-30	9/11/08	30	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
GB-21	GB-21-25	9/11/08	25	ND (<50)	Total Xylenes 0.53	ND (<0.50)	ND (<0.001)
	GB-21-30	9/11/08	30	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
GB-22	GB-22-25	9/10/08	25	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
	GB-22-30	9/10/08	30	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
	GB-22-40	9/10/08	40	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
GB-23	GB-23-25	9/11/08	25	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)
	GB-23-30	9/11/08	30	ND (<50)	ND(< 0.50)	ND (<0.50)	ND (<0.001)

Groundwater samples were analyzed by EPA Method Test Methods 8260B and 200.8

ug/L: Micrograms per liter (parts per billion)

mg/L: Milligrams per liter (parts per million)

TPH: Total Petroleum Hydrocarbons

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

Fuel Oxygenates Analyzed: Methyl tert-butyl ether (MTBE), di-isopropyl ether(DIPE), ethyl tertiary-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA)

Table 3
Summary of Analytical Results - Soil
CHP Oakland
Kleinfelder Project No.: 92451

Boring ID	Sample ID	Sample Date	Depth (feet)	TPH-Gasoline (mg/kg)	BTEX (mg/kg)	5 Fuel Oxygenates (mg/kg)	Total Lead (mg/kg)
Hydrocarbon Borings							
GB-16	GB-16-4-5	9/10/08	4-5	ND (<1.0)	ND (<0.005)	ND (<0.005)	3.93
GB-18	GB-18-4-5	9/10/08	4-5	ND (<1.0)	ND (<0.005)	ND (<0.005)	6.42
GB-20	GB-20-13.5-15	9/11/08	13.5-15	ND (<1.0)	ND (<0.005)	ND (<0.005)	5.11
GB-21	GB-21-3-4	9/11/08	3-4	ND (<1.0)	ND (<0.005)	ND (<0.005)	5.17
GB-22	GB-22-4-5	9/10/08	4-5	ND (<1.0)	ND (<0.005)	ND (<0.005)	4.10

Soil samples were analyzed by EPA Test Methods 8260B and 6010B.

mg/kg: milligrams per kilogram (parts per million)

TPH: Total Petroleum Hydrocarbons

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

APPENDIX A

ALAMEDA COUNTY WELL PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1 939

Application Approved on: 08/12/2008 By jamesy

Permit Numbers: W2008-0578
Permits Valid from 09/08/2008 to 09/12/2008

Application Id: 1218557780870
Site Location: CHP - California Highway Patrol, 3601 Telegraph Avenue, Oakland, CA
Project Start Date: 09/08/2008
Requested Inspection: 09/08/2008
Scheduled Inspection: 09/08/2008 at 1:00 PM (Contact your inspector, Ron Smalley at (510) 670-5407, to confirm.)

City of Project Site: Oakland
Completion Date: 09/12/2008

Applicant: Kleinfelder Inc. - Susan E. Gardner
Property Owner: State of CA Dept. of General, SUCS Attn: A. K. Jain
Client: 707 3rd St. Suite 4-430, West Sacramento, CA 95827
** same as Property Owner **

Phone: 916-366-1701
Phone: 916-375-4891

Receipt Number: Total Due: \$230.00
Total Amount Paid: \$0.00
Payment Type: EXMPT PAYMENT EXEMPT

Works Requesting Permits:

Borehole(s) for Investigation-En vironmental/Moni torinig Study - 10 Boreholes
Driller: William Vannucci - Lic #: 814760 - Method: DP

Work Total: \$230.00

Specifications

Table with columns: Permit Number, Issued Dt, Expire Dt, # Boreholes, Hole Diam, Max Depth. Row 1: W2008-0578, 08/12/2008, 12/07/2008, 10, 3.00 in., 35.00 ft

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
4. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

Alameda County Public Works Agency - Water Resources Well Permit

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:

399 Elmhurst Street

Hayward, CA 94544

For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org

For Drilling Permit information and process contact James Yoo at

Phone: 510-670-6633

FAX: 510-782-1939

Email: jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88. The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460

Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460

Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000

Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of **Oakland, Alameda, Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley, and Hayward**. The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application (30 Kb) *, along with a site map, should be submitted **at least ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees

Beginning April 11, 2005, the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost \$300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost \$200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects

Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections :

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the inspector can be reached if they are not at the site when inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm, Monday to Friday, excluding holidays.

Request for Permit Extension:

Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:

Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:

A service charge of \$25.00 dollars for the first check returned and \$35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of \$50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed \$500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is \$1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under \$500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement

Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars (\$500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis

Drilling without a permit shall be the cost of the permit(s) and a fine of \$500.00 (Five Hundred Dollars).


























Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies.

See our website (www.acgov.org/pw_a/wells/index.shtml) for links to additional forms.

APPENDIX B

BORING LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM 2487)

	MAJOR DIVISIONS		GRAPHIC LOG		TYPICAL DESCRIPTIONS	
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 GRAVELS WITH <5% FINES	$Cu \geq 4$ and $1 \leq Cc \leq 3$		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	$Cu \geq 4$ and $1 \leq Cc \leq 3$		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	$Cu \geq 6$ and $1 \leq Cc \leq 3$		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	$Cu \geq 6$ and $1 \leq Cc \leq 3$		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		
	SILTS AND CLAYS (Liquid limit greater than 50)		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY		
			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		



UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487)











PLATE

CHP OAKLAND

B-1

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

LOG SYMBOLS

	BULK / BAG SAMPLE	-4	PERCENT FINER THAN THE NO. 4 SIEVE (ASTM Test Method C 136)
	MODIFIED CALIFORNIA SAMPLER (2-1/2 inch outside diameter)	-200	PERCENT FINER THAN THE NO. 200 SIEVE (ASTM Test Method C 117)
	CALIFORNIA SAMPLER (3 inch outside diameter)	LL	LIQUID LIMIT (ASTM Test Method D 4318)
	STANDARD PENETRATION SPLIT SPOON SAMPLER (2 inch outside diameter)	PI	PLASTICITY INDEX (ASTM Test Method D 4318)
	CONTINUOUS CORE	TXCU	CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION (EM 1110-1-1906)
	SHELBY TUBE	EI	EXPANSION INDEX (UBC STANDARD 18-2)
	ROCK CORE	COL	COLLAPSE POTENTIAL
	WATER LEVEL (level where first encountered)	UC	UNCONFINED COMPRESSION (ASTM Test Method D 2166)
	WATER LEVEL (level after completion)		
	SEEPAGE	MC	MOISTURE CONTENT (ASTM Test Method D 2216)

GENERAL NOTES

1. Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual.
2. No warranty is provided as to the continuity of soil conditions between individual sample locations.
3. Logs represent general soil conditions observed at the point of exploration on the date indicated.
4. In general, Unified Soil Classification System designations presented on the logs were evaluated by visual methods. Where laboratory tests were performed, the designations reflect the laboratory test results.



LOG KEY

CHP OAKLAND

PLATE

B-2

Drafted By: D. Anderson




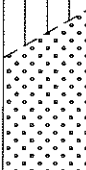


Project No.: 92451

Date: 11/12/2008

File Number: 92451Logs

Boring Location/ Surface Conditions: _____
 Groundwater: Groundwater encountered at a depth of 20 feet.
 Method: _____
 Equipment: _____

Date Completed: 9/9/2008
 Logged By: B. Honea
 Total Depth: 20 feet
 Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0-4	LB-1 0-2					Asphalt Concrete : Approximately 4 to 5 inches thick
4-5	LB-1 3-3.5 LB-1 4-5					Silty GRAVEL (GM) : Light gray, dry to moist, fine grained
5-15						Sandy SILT (ML) : Light brown to yellow-brown, moist, very firm, trace fine gravel
15-20						Gravelly SAND (SW) : Mottled brown, moist, dense, fine to coarse sand wet
20-20	LB-1 (Groundwater)					Sandy GRAVEL (GM) : Brown to yellow-brown, wet, dense, fine gravel
20-20						Boring completed at a depth of 20 feet below existing site grade.

P:\LOG_2006 BLOWS PER FOOT_92451\LOGS.GPJ 11/12/08



LOG OF BORING LB-1
 CHP OAKLAND

PLATE
 1 of 1
B-3

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Graded level, low weeds, sandy gravel

Groundwater: Groundwater encountered at a depth of 25 feet.

Method: _____

Equipment: _____

Date Completed: 9/9/2008

Logged By: B. Honea

Total Depth: 25 feet

Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0-1		LB-2-2				Silty GRAVEL (GM): Tan, dry, fine grained (FILL)
1-2		LB-2-4				Gravelly SAND (SW): Gray to dark gray, moist, dense, fine to coarse sand, fine gravel, trace brick pieces (FILL)
2-3		LB-2-5				Lean CLAY (CL): Light gray to olive, very firm
3-4						Clayey GRAVEL (GC): Light brown with red and yellow-brown, moist to wet, dense, fine grained
4-5						Clayey GRAVEL (GC): Brown, moist, dense, fine grained
5-6						Clayey GRAVEL (GC): Brown, moist, dense, fine grained
6-7						Clayey SAND (SC): Light gray, moist to wet, fine to medium grained, trace gravel
7-8						Sandy GRAVEL (GW): Brown, wet, very dense, fine gravel, fine to coarse sand
8-25		LB-2 (Groundwater)				Boring completed at a depth of 25 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08





LOG OF BORING LB-2
CHP OAKLAND

PLATE
1 of 1
B-4

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/ Surface Conditions: _____	Date Completed: <u>9/9/2008</u>
Groundwater: <u>Groundwater not encountered during drilling.</u>	Logged By: <u>B. Honea</u>
Method: _____	Total Depth: <u>5 feet</u>
Equipment: _____	Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
5	█	LB-3-2				Silty GRAVEL (GM): Tan, dry, dense, fine grained
5	█	LB-3-4 LB-3-5				Gravelly SAND (SW): Brown to gray, moist, dense, with some clay, trace brick pieces, concrete
10						
15						
20						
25						
30						
35						
						Boring completed at a depth of 5 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08



LOG OF BORING LB- 3
CHP OAKLAND

PLATE
1 of 1
B-5

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/ Surface Conditions: _____
 Groundwater: Groundwater not encountered during drilling.
 Method: _____
 Equipment: _____

Date Completed: 9/9/2008
 Logged By: B. Honea
 Total Depth: 5 feet
 Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1		LB-4-2				Silty GRAVEL (GM): Tan, dry, dense, fine grained
1 - 2		LB-4-4				Lean CLAY (CL): Dark gray, moist, very firm
2 - 3		LB-4-5				
3 - 5						Boring completed at a depth of 5 feet below existing site grade.
5 - 10						
10 - 15						
15 - 20						
20 - 25						
25 - 30						
30 - 35						

P:LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08



LOG OF BORING LB-4
 CHP OAKLAND

PLATE
 1 of 1
B-6

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

Boring Location/ Surface Conditions:	_____	Date Completed:	9/9/2008
Groundwater:	Groundwater not encountered during drilling.	Logged By:	B. Honea
Method:	_____	Total Depth:	5 feet
Equipment:	_____	Boring Diameter:	_____

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION
		Sample No.	Blows/foot	PID (ppmv)		
0 - 1		LB-5-2				Silty GRAVEL (GM): Tan, dry to moist
1 - 2		LB-5-4				Lean CLAY (CL): Dark gray, moist, very firm, trace sandy seams, trace fine gravel, brick pieces
2 - 5		LB-5-5				
5 - 35						Boring completed at a depth of 5 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08



LOG OF BORING LB- 5

CHP OAKLAND

PLATE

1 of 1

B-7

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: _____
Groundwater: Groundwater not encountered during drilling.
Method: _____
Equipment: _____

Date Completed: 9/9/2008
Logged By: B. Honea
Total Depth: 5 feet
Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1	█	LB-6 2				Silty GRAVEL (GM): Light brown, dry, dense, fine grained, trace concrete and brick
1 - 2	█	LB-6 4				Lean CLAY (CL): Dark gray, moist, firm
2 - 5	█	LB-6 5				
5 - 35						Boring completed at a depth of 5 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08



LOG OF BORING LB- 6
CHP OAKLAND

PLATE
1 of 1
B-8

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: _____
Groundwater: Groundwater not encountered during drilling.
Method: _____
Equipment: _____

Date Completed: 9/9/2008
Logged By: B. Honea
Total Depth: 5 feet
Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1		LB-7 2				Silty GRAVEL (GM): Tan, dry to moist, loose to dense, fine grained, with brick and concrete pieces
1 - 2		LB-7 4				Lean CLAY (CL): Dark gray, moist, very firm, with some sand, brick pieces
2 - 5		LB-7 5				
5 - 35						Boring completed at a depth of 5 feet below existing site grade.

P-LOG_2008 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08



LOG OF BORING LB-7
CHP OAKLAND



PLATE
1 of 1

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

B-9

Boring Location/ Surface Conditions: _____
 Groundwater: Groundwater not encountered during drilling.
 Method: _____
 Equipment: _____

Date Completed: 9/9/2008
 Logged By: B. Honea
 Total Depth: 5 feet
 Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1		LB-8 2				Silty GRAVEL (GM): Tan, dry, dense, fine grained
1 - 5		LB-8 4 LB-8 5				Lean CLAY (CL): Gray, moist to wet, firm, low plasticity
5 - 35						Boring completed at a depth of 5 feet below existing site grade.

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LOG OF BORING LB- 8
 CHP OAKLAND

PLATE
 1 of 1

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

B-10

Boring Location/
Surface Conditions: _____
Groundwater: Groundwater not encountered during drilling.
Method: _____
Equipment: _____

Date Completed: 9/9/2008
Logged By: B. Honea
Total Depth: 5 feet
Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1		LB-9 2				Silty GRAVEL (GM): Tan to light brown, dry, dense, fine grained, brick pieces
1 - 2		LB-9 4				Lean CLAY (CL): Dark gray, very firm, brick, gravel common
2 - 5		LB-9 5				Boring completed at a depth of 5 feet below existing site grade.
5 - 35						

P:\LOG_2008 BLOWS PER FOOT 92451\LOGS.GPJ 11/12/08



LOG OF BORING LB-9
CHP OAKLAND

PLATE
1 of 1

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

B-11

Boring Location/
Surface Conditions: _____
Groundwater: Groundwater not encountered during drilling.
Method: _____
Equipment: _____

Date Completed: 9/9/2008
Logged By: B. Honea
Total Depth: 5 feet
Boring Diameter: _____

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0 - 1		LB-10 2				Silty GRAVEL (GM): Tan, dry, dense, fine grained, brick and concrete pieces common
1 - 2		LB-10 4				Lean CLAY (CL): Dark gray, moist, very firm
2 - 5		LB-10 5				
5 - 35						Boring completed at a depth of 5 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08



LOG OF BORING LB-10
CHP OAKLAND

PLATE
1 of 1
B-12

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Asphalt concrete paved parking lot.

Groundwater: Groundwater encountered at depths of 30 and 35 feet.

Method: Direct Push

Equipment: Geoprobe

Date Completed: 9/10/2008

Logged By: B. Honea

Total Depth: 35 feet

Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PI D (ppmv)		
0						Asphalt Concrete
0						Silty GRAVEL (GM):
5		GB-16-4-5 (Soil)		0.0		Lean CLAY (CL): Gray-brown, moist, very firm to dark gray to olive
10				0.5		with sand stringers Sandy CLAY (CL): Gray-orange, moist, very firm, fine grained
15				0.0		Clayey SAND (SC): Yellow-brown, moist to wet
20				0.0		Silty SAND (SW): Yellow-brown, moist to wet, fine to coarse grained
20				0.1		Silty SAND (SM): Yellow-brown, moist, fine to coarse sand, some clay
20				0.1		Silty SAND/Sandy SILT (SM-ML): Olive-brown, moist, fine sand increased moisture
25				0.1		Lean CLAY with Sand (CL): Red-brown, moist, pockets of sandy silt, oxidation
30		GB-16-30 (Groundwater)		0.1		Sandy SILT (ML): Yellow-brown, moist, very low plasticity, fine sand
30				0.1		Silty SAND (SM): Olive-brown, moist to wet, fine to medium sand
35		GB-16-35 (Groundwater)		0.1		
35						Boring completed at a depth of 35 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08







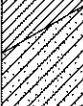
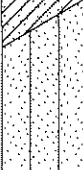


LOG OF BORING GB-16
CHP OAKLAND

PLATE
1 of 1
B-13

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/ Surface Conditions: Asphalt concrete paved parking lot.
 Groundwater: Groundwater encountered at a depth of 20 feet.
 Method: Direct Push
 Equipment: Geoprobe

Date Completed: 9/10/2008
 Logged By: B. Honea
 Total Depth: 30 feet
 Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Asphalt Concrete : Approximately 4 inches thick
0						Sandy GRAVEL (GW) : Brown, moist, dense, fine grained
0						SILT (ML) : Dark gray, moist to wet
0						Lean CLAY (CL) : Olive, moist, very firm with trace fine gravel stringers no gravel with 20% fine sand moist to wet with trace gravel to 5%
0						Clayey SAND (SC) : Brown, moist to wet with gravel stringers, trace brick colored pieces
0						Silty SAND (SM) : Light brown, wet, with 15 to 25% gravel
0		GB-17-20 (Groundwater)				
0						Lean CLAY (CL) : Gray-brown, moist, very firm
30						Boring completed at a depth of 30 feet below existing site grade.

P:\LOG_2006 BLOWS PER FOOT_92451\LOGS.GPJ 11/12/08



LOG OF BORING GB-17
 CHP OAKLAND

PLATE
 1 of 1
B-14

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Asphalt concrete paved parking lot.

Groundwater: Groundwater encountered at a depth of 23 feet.

Method: Direct Push

Equipment: Geoprobe

Date Completed: 9/10/2008

Logged By: J. Pemberton

Total Depth: 25 feet

Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Aggregate Base
0.4						Sandy Lean CLAY (CL): Dark brown, moist, low plasticity, medium to coarse sand
5	GB-18 4'-5'			0.4		Poorly Graded SAND (SP): medium to coarse grained
	GB-18 4.5' (Soil)			0.2		Silty SAND (SM): Dark brown, moist to wet, very low plasticity, fine sand FILL: pieces of brick
				0.2		Sandy SILT (ML): Olive-brown, moist, low plasticity, fine sand oxidation and black nodules
10				0.2		some increase in fine to medium sand, trace coarse sand
				0.2		pockets of blue-gray sandy silt
15				3.4		Silty SAND with Gravel (SM): Blue-gray, moist, low plasticity, fine to medium sand, fine gravel, strong odor
				0.3		Silty SAND with Gravel (SM): Yellow-brown, moist, medium sand, fine to coarse gravel
				0.2		decrease in fines, no gravel or coarse sand
20				0.2		Sandy SILT (ML): Olive-brown, moist, low plasticity, fine sand, oxidation and black stringers
				0.2		Sandy SILT (ML): Yellow-brown, moist, fine to medium sand, low plasticity, black nodules and oxidation
				0.2		Silty SAND (SM): Yellow-brown, moist to wet, fine to medium sand
25		GB-18-25 (Groundwater)				Sandy SILT (ML): Yellow-brown, moist, fine to medium sand, low plasticity, black nodules and oxidation
						Boring completed at a depth of 25 feet below existing site grade.

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08



LOG OF BORING GB-18

CHP OAKLAND

PLATE

1 of 1

B-15

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Asphalt concrete paved parking lot.

Groundwater: Groundwater encountered at depths of 25 and 30 feet.

Method: Direct Push











Equipment: Geoprobe

Date Completed: 9/11/2008

Logged By: J. Pemberton

Total Depth: 30 feet

Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Aggregate Base
0.2				0.2		Sandy Lean CLAY (CL): Dark gray, moist, very fine sand
5				0.2		Sandy SILT (ML): Yellow-brown, moist, low plasticity, very fine sand, black nodules, oxidation
10				0.1		Silty SAND with Gravel (SM): Red-brown, moist, medium to coarse sand, fine gravel
15				0.1		Silty SAND with Gravel (SM): Red-brown, moist, medium to coarse sand, fine gravel
15				0.1		Sandy SILT (SM): Yellow-brown-gray, moist to wet, low plasticity, fine to coarse sand, oxidation and black nodules
20				0.1		Silty SAND with Gravel (SM): Red-brown, moist, medium to coarse sand, fine gravel
20				0.1		Silty SAND with Gravel (SM): Red-brown, moist to wet, medium to coarse sand, fine to coarse angular gravel
25		GB-19-25 (Groundwater)				
30		GB-19-30 (Groundwater)				
30						Boring completed at a depth of 30 feet below existing site grade.

P-LOG, 2006 BLOWS PER FOOT, 92451LOGS.GPJ, 11/12/08



LOG OF BORING GB-19

CHP OAKLAND

PLATE

1 of 1

B-16

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Asphalt concrete paved parking lot.

Groundwater: Groundwater encountered at depths of 25 and 30 feet.

Method: Direct Push


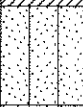
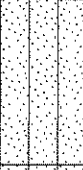

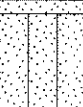
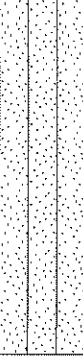
Equipment: Geoprobe

Date Completed: 9/11/2008

Logged By: J. Pemberton

Total Depth: 35 feet

Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Aggregate Base
0						Sandy Lean CLAY (CL): Dark brown, moist, very fine sand yellow-brown black nodules and oxidation some fine to coarse gravel
13.5	Soil	GB-20-13.5				Silty SAND with Gravel (SM): Yellow-red-brown, moist, medium to coarse sand, fine to coarse gravel
15						Silty SAND (SM): Yellow-brown-gray, moist to wet, medium to coarse sand, trace fine gravel
20						Silty SAND with Gravel (SM): Yellow-brown, moist, medium to coarse sand, fine gravel
25	Groundwater	GB-20-25				Poorly Graded SAND (SP): Yellow-brown, wet, medium to coarse sand Silty SAND with Gravel (SM): Yellow-brown, moist to wet, medium to coarse sand, fine gravel
30	Groundwater	GB-20-30				
35						Boring completed at a depth of 35 feet below existing site grade.



LOG OF BORING GB-20

CHP OAKLAND

PLATE

1 of 1

B-17

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/
Surface Conditions: Asphalt concrete paved parking lot.

Groundwater: Groundwater encountered at depths of 25, 30, and 40 feet.

Method: Direct Push

Equipment: Geoprobe

Date Completed: 9/11/2008

Logged By: J. Pemberton

Total Depth: 30 feet

Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Asphalt Concrete
0 - 1		GB-21-3.4				SILT with Sand (ML): Dark brown, moist, low plasticity, very fine grained, with clay
1 - 10						Silty SAND (SM): Yellow-brown, moist, very low plasticity, fine to medium grained, trace clay and coarse sand, trace oxidation and black nodules with gravel no gravel, increase in clay content increase in medium to coarse sand
10 - 14						Silty SAND with Gravel (SM): Yellow-red-brown, moist, low plasticity, medium to coarse sand, fine subrounded gravel
14 - 20						Silty SAND (SM): Yellow-brown, moist, very low plasticity, fine sand, trace fine gravel, oxidation
20 - 21						Silty SAND with Gravel (SM): Brown, moist, dense
21 - 22						Poorly Graded SAND (SP): Orange-brown, moist, fine to medium grained
22 - 23						Silty SAND with Gravel (SM): Red-brown, moist, medium to coarse sand, fine gravel
23 - 24						Poorly Graded SAND (SP): Brown, moist to wet, dense, medium grained
24 - 25						Silty SAND (SM): Brown, moist to wet, fine grained
25 - 26		GB-21-25 (Groundwater)				Well Graded GRAVEL with Sand (GP): Wet, fine to coarse subangular gravel
26 - 30						Silty SAND (SM): Brown, wet, dense, fine to medium sand
30 - 35		GB-21-30 (Groundwater)				Boring completed at a depth of 30 feet below existing site grade.



LOG OF BORING GB-21

CHP OAKLAND

PLATE

1 of 1

B-18

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

P:\LOG_2008 BLOWS PER FOOT_92451\LOGS.GPJ 11/12/08

Boring Location/ Surface Conditions:	Asphalt concrete paved parking lot.	Date Completed:	9/11/2008
Groundwater:	Groundwater encountered at depths of 25 and 30 feet.	Logged By:	J. Pemberton
Method:	Direct Push	Total Depth:	40 feet
Equipment:	Geoprobe	Boring Diameter:	2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Aggregate Base
0-5		GB-22-4.5				Sandy Lean CLAY (CL): Dark brown, moist, very fine sand
5-10						Sandy SILT (ML): Olive-brown, moist, very fine sand, black nodules and oxidation
10-15						Silty SAND (SM): Yellow-brown, moist, medium to coarse sand, some fine gravel, black nodules and oxidation
15-25						Sandy SILT (ML): Yellow-brown, moist, low plasticity fine to coarse gravel present
25-30		GB-22-25 (Groundwater)				Silty SAND with Gravel (SM): Blue-gray, moist, fine to coarse gravel, fine to medium sand
30-35		GB-22-30 (Groundwater)				Silty SAND with Gravel (SM): Yellow-brown, moist to wet, medium to coarse sand, fine gravel increase in medium to coarse sand
35-40						Poorly Graded SAND (SP): Red-brown, wet, medium to coarse sand dry

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08



LOG OF BORING GB-22
CHP OAKLAND

PLATE
1 of 2
B-19

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Depth (feet)	Sample Type	FIELD			Graphic Log	DESCRIPTION
		Sample No.	Blows/foot	PID (ppmv)		
40		GB-22-40 (Groundwater)			▼	wet
45						Boring completed at a depth of 40 feet below existing site grade.
50						
55						
60						
65						
70						
75						

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ_11/12/08



LOG OF BORING GB-22
CHP OAKLAND

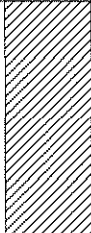



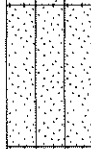


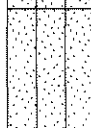
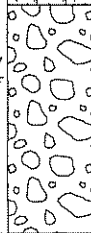

PLATE
2 of 2

B-19

Drafted By: D. Anderson Project No.: 92451
Date: 11/12/2008 File Number: 92451Logs

Boring Location/ Surface Conditions: Asphalt concrete paved parking lot.
 Groundwater: Groundwater encountered at depths of 25 and 30 feet.
 Method: Direct Push
 Equipment: Geoprobe

Date Completed: 9/11/2008
 Logged By: B. Honea
 Total Depth: 30 feet
 Boring Diameter: 2 inch

Depth (feet)	Sample Type	Sample No.	FIELD		Graphic Log	DESCRIPTION
			Blows/foot	PID (ppmv)		
0						Sandy Lean CLAY (CL): Brown, dry, low plasticity, very fine sand, oxidation
5						gray-brown
10						Silty SAND with Gravel (SM): Yellow-brown, moist, medium to coarse sand, fine to coarse subangular gravel
10						Silty SAND/Sandy SILT (SM-ML): Yellow-brown, moist, low plasticity, fine to medium sand
15						Silty SAND with Gravel (SM): Yellow-brown, moist, medium to coarse sand, fine subangular gravel, oxidation
15						Silty SAND (SM): Yellow-brown, moist, fine to medium sand, oxidation
20						Silty SAND with Gravel (SM): Yellow-brown, moist, medium to coarse sand, fine subangular gravel, oxidation
20						Silty SAND (SM): Gray, moist, low plasticity, fine to medium sand, trace fine gravel, oxidation
25		GB-23-25 (Groundwater)				Silty SAND (SM): Gray, moist, low plasticity, medium to coarse sand, trace fine gravel, oxidation
25						Poorly Graded GRAVEL with Sand (GP): Red-brown, moist to wet, medium to coarse sand, fine to coarse subangular gravel
30		GB-23-30 (Groundwater)				Boring completed at a depth of 30 feet below existing site grade.
35						

P-LOG_2006 BLOWS PER FOOT_92451LOGS.GPJ 11/12/08



LOG OF BORING GB-23
 CHP OAKLAND

PLATE
 1 of 1
B-20

Drafted By: D. Anderson Project No.: 92451
 Date: 11/12/2008 File Number: 92451Logs

APPENDIX C

SAMPLE DATA SHEETS



INSTRUMENT CALIBRATION LOG

Sampler Name/No. B. HONEA
 Project No. 92451-1

Date 9-10-08
 Job Name CHP. DAKLAND

pH Meter (make/number) YSI 556 MPS

EC Meter (make/number) YSI 556 MPS

	Time	Temp.	pH4	pH7	pH10	1413-umho	-umho
Reading (initial)	0812	18.39	3.94		10.14	1393	
Calibration (initial)			4.00		10.00	1416	
Reading (intermediate)							
Calibration (intermediate)							
Reading (end of day)	1647	24.91	4.04		10.10	1409	

Comments:

Comments:

Turbidity Meter (make/number) _____

D.O. Meter (make/number) YSI 556 MPS

	NTU	NTU	NTU	Battery Check
Reading (Initial)				
Calibration				

	Hg in inches	Hg in mm
Weather Service Reading (initial)	758.6 →	
Reading (adj.)		



INSTRUMENT CALIBRATION LOG

Sampler Name/No. P. Moran / 699
 Project No. 92451-1

Date 9-11-08
 Job Name CHP. BARLAJUL

pH Meter (make/number) YSI 556 MPS

EC Meter (make/number) YSI 596 MPS

	Time	Temp.	pH4	pH7	pH10	1413-umho	-umho
Reading (initial)	0840	17.75	4.00		9.96	1420	
Calibration (initial)			4.00		10.06	1413	
Reading (intermediate)							
Calibration (intermediate)							
Reading (end of day)	1244		4.12		10.04	1418	

Comments:

Comments:

Turbidity Meter (make/number) _____

D.O. Meter (make/number) YSI 556 MPS

	NTU	NTU	NTU	Battery Check
Reading (Initial)				
Calibration				

	Hg in inches	Hg in mm
Weather Service Reading (initial)		756.4
Reading (adj.)		

PROJECT CHP OAKLAND PROJECT NO. 92451-1
 SUBJECT XRF SAMPLE SCREENING BY Kah #7103 DATE 9-9-08
 REVIEWED BY _____ DATE _____

(LAB)

(220)
(910)

ROLLING LOCATION	SAMPLE ID	DEPTH (FT)	XRF READING Pb (PPM)	TWO-STAMP 95% CONFIDENCE ERROR +/-	TIME ELAPSED MIN	NOTES & COMMENTS
LB-1	LB-1-2	0-2'	5.9	7.7	20 SECS	
LB-1	LB-1-3.5	3.5	ND	11	20	
LB-1	LB-1-5	5	ND	11	20	
LB-2	LB-2-2	0-2	ND	10	20	BRICK CHIPS
LB-2	LB-2-4	3-4	105.5	17.3	20	BRICK CHIPS
LB-2	LB-2-5	4-5	31.5	11.2	20	BRICK CHIPS
LB-3	LB-3-2	0-2	ND	13	20	
LB-3	LB-3-4	3-4	16.5	9.1	20	BRICK CHIPS
LB-3	LB-3-5	4-5	ND	12	20	CLAY
LB-4	LB-4-2	0-2	43.3	17.1	20	BRICK CHIPS
LB-4	LB-4-4	3-4	ND	14	20	CLAY
LB-4	LB-4-5	4-5	ND	11	20	CLAY
LB-5	LB-5-2	0-2	20.8	10.0	20	
LB-5	LB-5-4	3-4	ND	13	20	CLAY
LB-5	LB-5-5	4-5	ND	11	20	CLAY
LB-6	LB-6-2	0-2	22.1	10.0	20	
LB-6	LB-6-4	3-4	ND	14	20	CLAY
LB-6	LB-6-5	4-5	29.5	11.4	20	CLAY
LB-7	LB-7-2	0-2	31.3	9.7	20	BRICK CHIPS
LB-7	LB-7-4	3-4	18.0	9.3	20	BRICK CHIPS
LB-7	LB-7-5	4-5	ND	11	20	CLAY
LB-8	LB-8-2	0-2	18.1	13.4	20	BRICK CHIPS
LB-8	LB-8-4	3-4	ND	11	20	CLAY
LB-8	LB-8-5	4-5	16.4	9.3	20	CLAY

PROJECT CP OAKLAND PROJECT NO. 92451-1
 SUBJECT XRF SAMPLE SCREENING BY John #7103 DATE 9-9-08
 REVIEWED BY _____ DATE _____

Boring Location	SAMPLE ID	DEPTH (F)	XRF Pb READING (ppm)	TWO-SIGMA 95% CONFIDENCE +/-	TIME ELAPSED MAX	NOTES & COMMENTS
LB-9	LB-9-2	0-2	ND	13		ROCKS
LB-9	LB-9-4	3-4	ND	13	20	CLAY
LB-9	LB-9-5	4.5	ND	12	20	BRICK CHIPS
LB-10	LB-10-2	0-2	32.3	11.0	20	BRICK CHIPS & CERAMIC SHARDS ROCKS
LB-10	LB-10-4	3-4	ND	12	20	
LB-10	LB-10-5	4.5	12.9	8.5	20	CLAY BRICK CHIPS

Sample Data Sheet

Page

Project Name CHP OAKLAND
 Project No. 92451
 Sampler Name/No. 699 / BRIAN HONEN

Site / Boring / Well / Barrel Number	Date	Time	Sample Number	Sample Interval (feet)	PID (ppm)	Receiving Lab	Analysis	Matrix
LB-1	9-9-08		LB1-2	0-2		KIFF	LEAD	SOIL
			LB-1-3.5	3-4		↓	↓	↓
			LB-1-5	4-5		SAVE		↓
		0914	LB-1			KIFF		WATER
LB-2	9-9-08		LB-2-2	0-2		↓		SOIL
			LB-2-4	3-4		↓		
			LB-2-5	4-5		SAVE		
LB-2	9-9-08	1034	LB-2			KIFF		WATER
LB-3								

Kalen finished on separate sheet.



Sample Data Sheet

Project Name CHP OAKLAND
 Project No. 92451-1
 Sampler Name/No. BRIAN E. HONEA / 1099

Site / Boring / Well / Barrel Number	Date	Time	Sample Number	Sample Interval (feet)	PID (ppm)	Receiving Lab	Analysis	Matrix
GB-17 20	9-9-08	1448	GB-17-20			KIFF		Water
X GB-16	9-10-08	833	GB-16-45	4 to 5				Soil
* GB-16	9-10-08	903	GB-16-22-23	22 to 23				Soil
GB-16	9-10-08	945	GB-16-30			K.H		Water
GB-16	9-10-08	1010	GB-16-35			K.H		Water
X GB-22	9-10-08	1037	GB-22-45	4 to 5				Soil
* GB-22	9-10-08	1105	GB-22-17-18	17 to 18				Soil
GB-22	9-10-08	1130	GB-22-25			K.H		Water
GB-22	9-10-08	1235	GB-22-30					
GB-22	9-16-08	1431	GB-22-40					
X * GB-18	9-10-08	1456	GB-18-14.6			KIFF		Soil
GB-18	9-10-08	1534	GB-18-25			↓		Water
X GB-21	9-11-08	0835	GB-21-3-4	3 to 4		KIFF		Soil
GB-21		0905	GB-21-25					Water
X GB-23		1010	GB-23-8-10					
GB-23		1035	GB-23-25			K.H		Water
GB-20	GB-20	1220	GB-20-25			K.H		Water
GB-23		1105	GB-23-30					
GB-20		1238	GB-20-30					Water
GB-19		1415	GB-19-30					
V GB-20		1205	GB-20-13.5-15					Soil

KLEINFELDER
FIELD OBSERVATION DATA SHEET

PROJECT NO. 92451 EMPLOYEE(S) NO. 699

Location No.	Date			Military Time		Code Number*	Measurement	Alt. Msmt. (product)	Comments
	M	D	Y	Hr.	Min.				
1	LB 1	9	9	08	11	22	0	13.62	<i>Assuma</i> 79.0 est.
2	LB 2	9	9	08	11	17	0	14.45	<i>dev. 100 ft assumed</i>
3	GB-22	9	10	08	12	27	0	14.70	89.5 est.
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

* Code

- | | |
|---------------------------------------|-----------------------------------|
| 0 Depth Water, Feet (TCC) | 27 pH, Water Sample |
| 1 Water Level Elevation, Feet (MSL) | 28 pH, Probe (Lowered into Well) |
| 2 Depth Water, Feet (Cristy Box) | 29 Air Temperature (°C) |
| 3 Depth Water/Product, Feet (TCC) | 30 Water Temperature (°C) |
| 4 Water/Product Elevation, Feet (MSL) | 31 Residual Chlorine |
| 5 Depth Water/Product, Feet (Cristy) | 32 Dissolved Oxygen, mg/l |
| 6 Oil Flow Rate, GPM | 33 Specific Conductance, umhos/cm |
| 7 Cumulative Oil, Gallons | 34 Nitrogen as Ammonia, mg/l |
| 20 Pumping Depth, Feet | 35 Nitrate Nitrogen, mg/l |
| 21 Pumping Rate, GPM | 36 Precipitation, Inches/Day |
| 22 Pressure, PSI | 39 Cumulative Gallons |
| 23 Flow Rate, GPM | 40 Cumulative Acre - Feet |
| 24 Stream Flow, CFS | 57 Residual Vacuum |
| 60 Volume, mL | 58 Reset Vacuum (in centibars) |

APPENDIX D

**CHAIN-OF-CUSTODY FORMS
LABORATORY ANALYTICAL REPORTS**



Report Number : 64642

Date : 09/16/2008

Pam Wee
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 20 Soil Samples and 2 Water Samples
Project Name : Site "K"
Project Number : 92451-1

Dear Ms. Wee,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-1-2**

Matrix : Soil

Lab Number : 64642-01

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	0.77	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-1**

Matrix : Water

Lab Number : 64642-02

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	09/15/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-1-3.5**

Matrix : Soil

Lab Number : 64642-03

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-2-2**

Matrix : Soil

Lab Number : 64642-04

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	9.0	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-2-4**

Matrix : Soil

Lab Number : 64642-05

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	220	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-2**

Matrix : Water

Lab Number : 64642-06

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	0.65	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	111		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	09/15/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-3-2**

Matrix : Soil

Lab Number : 64642-07

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	76	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-3-4**

Matrix : Soil

Lab Number : 64642-08

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	19	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-4-2**

Matrix : Soil

Lab Number : 64642-09

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	99	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-4-4**

Matrix : Soil

Lab Number : 64642-10

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	14	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-5-2**

Matrix : Soil

Lab Number : 64642-11

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	79	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-5-4**

Matrix : Soil

Lab Number : 64642-12

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	6.3	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-6-2**

Matrix : Soil

Lab Number : 64642-13

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	120	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-6-4**

Matrix : Soil

Lab Number : 64642-14

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	13	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-7-2**

Matrix : Soil

Lab Number : 64642-15

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	40	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-7-4**

Matrix : Soil

Lab Number : 64642-16

Sample Date :09/09/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	4.5	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-8-2**

Matrix : Soil

Lab Number : 64642-17

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	32	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-8-4**

Matrix : Soil

Lab Number : 64642-18

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	8.3	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-9-2**

Matrix : Soil

Lab Number : 64642-19

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	61	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-9-4**

Matrix : Soil

Lab Number : 64642-20

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	14	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-10-2**

Matrix : Soil

Lab Number : 64642-21

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	130	0.50	mg/Kg	EPA 6010B	09/11/2008



Report Number : 64642

Date : 09/16/2008

Project Name : **Site "K"**

Project Number : **92451-1**

Sample : **LB-10-4**

Matrix : Soil

Lab Number : 64642-22

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	10	0.50	mg/Kg	EPA 6010B	09/11/2008

Report Number : 64642

Date : 09/16/2008

QC Report : Method Blank Data

Project Name : **Site "K"**

Project Number : **92451-1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/11/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	98.2		%	EPA 8260B	09/15/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64642

Date : 09/16/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Site "K"**

Project Number : **92451-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Lead	64642-01	0.77	50.0	50.0	47.2	46.9	mg/Kg	EPA 6010B	9/11/08	93.0	92.3	0.690	75-125	20
1,2-Dichloroethane	64721-04	<0.50	39.2	39.2	38.6	39.2	ug/L	EPA 8260B	9/15/08	98.7	100	1.37	70-130	25
Benzene	64721-04	<0.50	40.0	40.0	40.5	40.4	ug/L	EPA 8260B	9/15/08	101	101	0.317	70-130	25
Methyl-t-butyl ether	64721-04	<0.50	40.0	40.0	40.1	38.2	ug/L	EPA 8260B	9/15/08	100	95.4	4.84	70-130	25
Tert-Butanol	64721-04	<5.0	200	200	191	193	ug/L	EPA 8260B	9/15/08	95.7	96.8	1.16	70-130	25
Toluene	64721-04	<0.50	39.5	39.5	40.9	40.3	ug/L	EPA 8260B	9/15/08	104	102	1.54	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64642

Date : 09/16/2008

QC Report : Laboratory Control Sample (LCS)

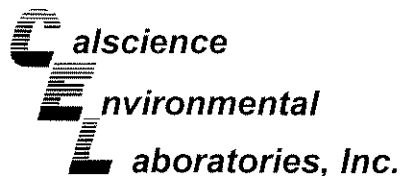
Project Name : **Site "K"**

Project Number : **92451-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	9/11/08	101	85-115
1,2-Dichloroethane	39.2	ug/L	EPA 8260B	9/15/08	98.2	70-130
Benzene	40.1	ug/L	EPA 8260B	9/15/08	102	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/15/08	89.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/15/08	94.2	70-130
Toluene	39.5	ug/L	EPA 8260B	9/15/08	101	70-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800



September 17, 2008

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 08-09-0992**
Client Reference: **Site "K"**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/11/2008 and analyzed in accordance with the attached chain-of-custody.

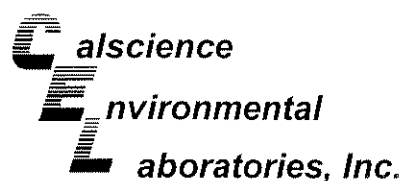
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Amanda Porter".

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager



Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/11/08
Work Order No: 08-09-0992
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project: Site "K"

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LB-1	08-09-0992-1-A	09/09/08 09:14	Aqueous	ICP/MS A	09/15/08	09/16/08 19:46	080915L03F

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

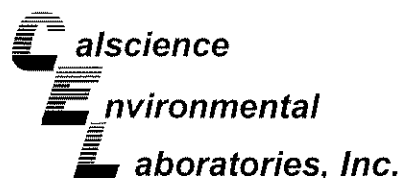
LB-2	08-09-0992-2-A	09/09/08 10:34	Aqueous	ICP/MS A	09/15/08	09/16/08 20:04	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Method Blank	099-10-008-1,077	N/A		Aqueous	ICP/MS A	09/15/08	09/16/08 17:14	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

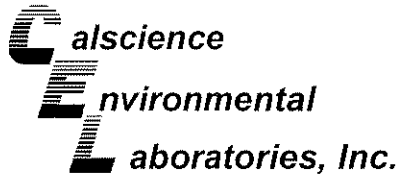
Date Received: 09/11/08
Work Order No: 08-09-0992
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project Site "K"

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-09-1153-7	Aqueous	ICP/MS A	09/15/08	09/16/08	080915S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	105	80-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

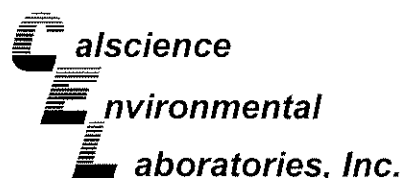
Date Received 09/11/08
Work Order No: 08-09-0992
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project: Site "K"

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
08-09-1153-7	Aqueous	ICP/MS A	09/15/08	09/16/08	080915S03

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	101	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

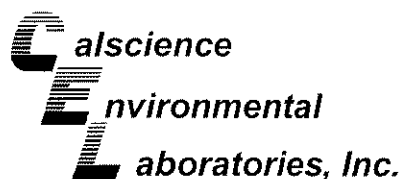
Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	08-09-0992
Davis, CA 95616-6593	Preparation:	EPA 3005A Filt.
	Method:	EPA 200.8

Project: Site "K"

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-1,077	Aqueous	ICP/MS A	09/15/08	09/16/08	080915L03F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	100	85-115	2	0-20	

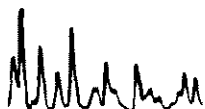
RPD - Relative Percent Difference , CL - Control Limit



Glossary of Terms and Qualifiers

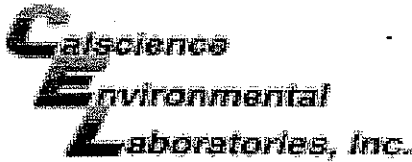
Work Order Number: 08-09-0992

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



Test Detail for Kiff Work Order: 64642

ICP-MS 200.8 Dissolved (1)
Lead



WORK ORDER #: 08 - 09 - 0992

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KFF ANALYTICAL

DATE: 9-11-08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature (For Air & Filter only).
C Temperature blank.

LABORATORY (Other than CalScience Courier):

- 3.6 C Temperature blank.
C IR thermometer.
Ambient temperature (For Air & Filter only).

Initial: WBS

CUSTODY SEAL INTACT:

Sample(s): Cooler: / No (Not Intact): Not Present:

Initial: WBS

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: WBS

COMMENTS:

Blank lines for handwritten comments.



64642

1 of 2

PROJECT NO. 92451-1		PROJECT NAME Site "K"			NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS										RECEIVING LAB: Kiff	
L.P. NO. (PO. NO.)	SAMPLERS: (Signature/Number) John B. #7103 / Rain/Honey/699			Total Lead (6010) TPH-gas (8260) BTEX (8260) 5-Oxybenz (8260) 1,2-DCA & EDF (8260) Dissolved Lead (200)										STAT / EDF				
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX													INSTRUCTIONS/REMARKS retain remainder of soil for possible further testing		
1	9-9-08	0850	LB-1-2	SOIL	1	*	X											
2		0914	LB-1	water	5	**		X	X	X	X	X					PLEASE CALL SUE @	
3		0900	LB-1-3,5	SOIL	1	*	X										916-366-2310 TO	
4		0930	LB-2-2	SOIL	1	*	X										SPECIFY Pb METHOD	
5		0940	LB-2-4	SOIL	1	*	X										ON 9-10-08	
6		1034	LB-2	WATER	5	**		X	X	X	X	X						
7		1000	LB-3-2	SOIL	1	*	X										EDF Required	
8		1010	LB-3-4				X										Global ID# T0619763665	
9		1030	LB-4-2				X											
10		1040	LB-4-4				X											
11		1100	LB-5-2				X											
12		1110	LB-5-4				X										Not filtered in	
13		1130	LB-6-2				X										field	
14		1140	LB-6-4				X										please lab filter	
15		1200	LB-7-2				X											
16		1210	LB-7-4				X											
17		1230	LB-8-2				X											
18		1240	LB-8-4				X											
19		1300	LB-9-2				X											
20		1310	LB-9-4				X											

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SAMPLE RECEIPT
 Temp °C 10.7 Therm. ID# SI-2
 Initial JSS Date 090908
 Time 1723 Coolant present: No

Relinquished by: (Signature) <i>John B. #7103</i>	Date/Time 9-9-08 1723	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time	Received by: (Signature) _____
Relinquished by: (Signature) _____	Date/Time 090908 1723	Received for Laboratory by: (Signature) <i>A Kiff Analyzed</i>

Instructions/Remarks:
 * plastic tube (geoprobe)
 ** 4-HCl preserved VOAs
 and 1-250ml poly

Send Results To:
 Pam Wee and
 Sue Gardner
 pwee@kleinfelder.com
 Attn: sgardner@kleinfelder.com

64642

2 of 2

PROJECT NO. 92451-1		PROJECT NAME SITE "K"		NO. OF CON- TAINERS	TYPE OF CON- TAINERS	ANALYSIS	RECEIVING LAB: KIFF														
L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number) Klein Bptw #7103 / Rain Homea 699						INSTRUCTIONS/REMARKS STANDARD TAT & EDF RETAIN REMAINING SOIL FOR POSSIBLE FURTHER ANALYSIS														
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX																		
1	9-9-08	1330	LB-10-2	SOIL	1	*	X														
2	↓	1340	LB-10-4	↓	1	*	X														
3																					
4																					
5																					
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Relinquished by: (Signature) <i>Klein Bptw</i>	Date/Time 9-9-08 1723	Received by: (Signature) _____	Instructions/Remarks: * PLASTIC TUBE (GEO-PROBE) ** 4- HCL VOLS & 1- 250ML POLY	Send Results To: Pwee @KLEINFELDER.COM Sgardner Attn: Pam Wee & Sue Gardner
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____		
Relinquished by: (Signature) _____	Date/Time 090908 1223	Received for Laboratory by: (Signature) <i>A Kiff Analytical</i>		

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EDF REQUIRED:
GLOBAL ID# T0619763665

* NOT FILTERED IN FIELD
PLEASE LAB FILTER



Report Number : 64701

Date : 09/17/2008

Sue Gardner
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 5 Soil Samples and 15 Water Samples
Project Name : Site K
Project Number : 92451

Dear Ms. Gardner,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jbel Kiff II".

Jbel Kiff II



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-16-30**

Matrix : Water

Lab Number : 64701-01

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	0.57	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	94.7		% Recovery	EPA 8260B	09/15/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-16-35**

Matrix : Water

Lab Number : 64701-02

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	0.90	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	09/15/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-22-25**

Matrix : Water

Lab Number : 64701-03

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	09/15/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-22-30**

Matrix : Water

Lab Number : 64701-04

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.0		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-22-40**

Matrix : Water

Lab Number : 64701-05

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	91.8		% Recovery	EPA 8260B	09/15/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-18-25**

Matrix : Water

Lab Number : 64701-06

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	3.0	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	92.2		% Recovery	EPA 8260B	09/15/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-17-20**

Matrix : Water

Lab Number : 64701-07

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	0.84	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.6		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-21-25**

Matrix : Water

Lab Number : 64701-08

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	0.53	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	99.4		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.9		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-23-25**

Matrix : Water

Lab Number : 64701-09

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	90.8		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-20-25**

Matrix : Water

Lab Number : 64701-10

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	90.9		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-23-30**

Matrix : Water

Lab Number : 64701-11

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.8		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-20-30**

Matrix : Water

Lab Number : 64701-12

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/12/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	91.8		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-16-4-5**

Matrix : Soil

Lab Number : 64701-13

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-22-4-5**

Matrix : Soil

Lab Number : 64701-14

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	112		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-18-4-5**

Matrix : Soil

Lab Number : 64701-15

Sample Date :09/10/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-21-3-4**

Matrix : Soil

Lab Number : 64701-16

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-20-13.5-15**

Matrix : Soil

Lab Number : 64701-17

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	09/12/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-21-30**

Matrix : Water

Lab Number : 64701-18

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.7		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-19-25**

Matrix : Water

Lab Number : 64701-19

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	0.61	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	91.6		% Recovery	EPA 8260B	09/16/2008



Report Number : 64701

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Sample : **GB-19-30**

Matrix : Water

Lab Number : 64701-20

Sample Date :09/11/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/16/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/16/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/16/2008
Toluene - d8 (Surr)	92.4		% Recovery	EPA 8260B	09/16/2008

QC Report : Method Blank Data

Project Name : Site K

Project Number : 92451

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	99.9		%	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	102		%	EPA 8260B	09/12/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/12/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/12/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/12/2008
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	09/12/2008
Toluene - d8 (Surr)	99.4		%	EPA 8260B	09/12/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	99.3		%	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	98.9		%	EPA 8260B	09/15/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	09/15/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/15/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/15/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/15/2008
Toluene - d8 (Surr)	92.9		%	EPA 8260B	09/15/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 09/17/2008

Project Name : Site K

Project Number : 92451

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichloroethane	64701-13	<0.0050	0.0388	0.0385	0.0356	0.0365	mg/Kg	EPA 8260B	9/12/08	91.6	94.8	3.37	70-130	25
Benzene	64701-13	<0.0050	0.0397	0.0394	0.0353	0.0355	mg/Kg	EPA 8260B	9/12/08	88.8	90.1	1.51	70-130	25
Methyl-t-butyl ether	64701-13	<0.0050	0.0397	0.0394	0.0299	0.0310	mg/Kg	EPA 8260B	9/12/08	75.4	78.9	4.42	70-130	25
Tert-Butanol	64701-13	<0.0050	0.198	0.196	0.175	0.188	mg/Kg	EPA 8260B	9/12/08	88.6	95.5	7.52	70-130	25
Toluene	64701-13	<0.0050	0.0391	0.0388	0.0312	0.0317	mg/Kg	EPA 8260B	9/12/08	79.8	81.5	2.10	70-130	25
1,2-Dichloroethane	64672-04	<0.50	39.1	39.2	39.1	36.4	ug/L	EPA 8260B	9/12/08	100	92.9	7.52	70-130	25
Benzene	64672-04	<0.50	40.0	40.0	39.5	38.8	ug/L	EPA 8260B	9/12/08	98.9	96.9	2.00	70-130	25
Methyl-t-butyl ether	64672-04	<0.50	39.9	40.0	38.9	36.3	ug/L	EPA 8260B	9/12/08	97.5	90.7	7.18	70-130	25
Tert-Butanol	64672-04	<5.0	199	200	187	183	ug/L	EPA 8260B	9/12/08	94.0	91.7	2.50	70-130	25
Toluene	64672-04	<0.50	39.4	39.5	39.4	39.3	ug/L	EPA 8260B	9/12/08	100	99.5	0.514	70-130	25
1,2-Dichloroethane	64732-02	<0.50	39.2	39.2	37.8	37.9	ug/L	EPA 8260B	9/15/08	96.4	96.6	0.190	70-130	25
Benzene	64732-02	<0.50	40.1	40.1	39.5	39.5	ug/L	EPA 8260B	9/15/08	98.5	98.4	0.0878	70-130	25
Methyl-t-butyl ether	64732-02	<0.50	40.1	40.1	38.7	38.5	ug/L	EPA 8260B	9/15/08	96.6	96.1	0.511	70-130	25
Tert-Butanol	64732-02	<5.0	200	200	199	196	ug/L	EPA 8260B	9/15/08	99.6	97.9	1.76	70-130	25
Toluene	64732-02	<0.50	39.5	39.5	37.9	37.7	ug/L	EPA 8260B	9/15/08	95.8	95.4	0.352	70-130	25
1,2-Dichloroethane	64744-11	0.59	39.2	39.2	41.1	40.2	ug/L	EPA 8260B	9/15/08	103	101	2.37	70-130	25
Benzene	64744-11	1.2	40.1	40.1	41.6	40.9	ug/L	EPA 8260B	9/15/08	101	99.0	1.81	70-130	25
Methyl-t-butyl ether	64744-11	<0.50	40.1	40.1	37.1	37.0	ug/L	EPA 8260B	9/15/08	92.6	92.2	0.378	70-130	25
Tert-Butanol	64744-11	<5.0	200	200	206	200	ug/L	EPA 8260B	9/15/08	103	99.8	3.09	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64701

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 09/17/2008

Project Name : **Site K**

Project Number : **92451**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	64744-11	<0.50	39.5	39.5	37.3	36.4	ug/L	EPA 8260B	9/15/08	94.3	92.0	2.52	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Site K**Project Number : **92451**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dichloroethane	0.0387	mg/Kg	EPA 8260B	9/12/08	100	70-130
Benzene	0.0396	mg/Kg	EPA 8260B	9/12/08	95.6	70-130
Methyl-t-butyl ether	0.0395	mg/Kg	EPA 8260B	9/12/08	98.1	70-130
Tert-Butanol	0.197	mg/Kg	EPA 8260B	9/12/08	92.0	70-130
Toluene	0.0390	mg/Kg	EPA 8260B	9/12/08	95.7	70-130
1,2-Dichloroethane	39.2	ug/L	EPA 8260B	9/12/08	96.2	70-130
Benzene	40.1	ug/L	EPA 8260B	9/12/08	99.9	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/12/08	81.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/12/08	93.4	70-130
Toluene	39.5	ug/L	EPA 8260B	9/12/08	101	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	9/15/08	92.5	70-130
Benzene	40.0	ug/L	EPA 8260B	9/15/08	99.6	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/15/08	96.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/15/08	94.2	70-130
Toluene	40.0	ug/L	EPA 8260B	9/15/08	100	70-130
1,2-Dichloroethane	39.8	ug/L	EPA 8260B	9/15/08	102	70-130
Benzene	39.8	ug/L	EPA 8260B	9/15/08	102	70-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	9/15/08	94.0	70-130
Tert-Butanol	199	ug/L	EPA 8260B	9/15/08	98.1	70-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number : 64701

Date : 09/17/2008

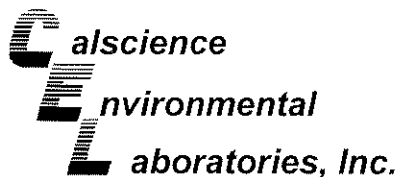
Project Name : **Site K**

Project Number : **92451**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	39.8	ug/L	EPA 8260B	9/15/08	95.4	70-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800



September 19, 2008

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **CalScience Work Order No.: 08-09-1153**
Client Reference: Site K

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/12/2008 and analyzed in accordance with the attached chain-of-custody.

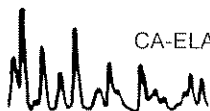
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

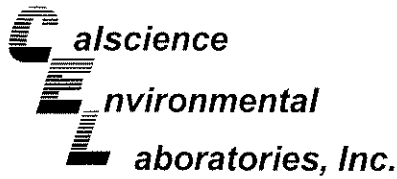
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads 'Amanda Porter'.

CalScience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager





Analytical Report

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 09/12/08
 Work Order No: 08-09-1153
 Preparation: EPA 3005A Filt.
 Method: EPA 200.8

Project: Site K

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GB-16-30	08-09-1153-1-A	09/10/08 09:45	Aqueous	ICP/MS A	09/15/08	09/19/08 00:03	080915L03F

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-16-35	08-09-1153-2-A	09/10/08 10:10	Aqueous	ICP/MS A	09/15/08	09/19/08 00:06	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-22-25	08-09-1153-3-A	09/10/08 11:30	Aqueous	ICP/MS A	09/15/08	09/19/08 00:15	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-22-30	08-09-1153-4-A	09/10/08 12:35	Aqueous	ICP/MS A	09/15/08	09/19/08 00:18	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

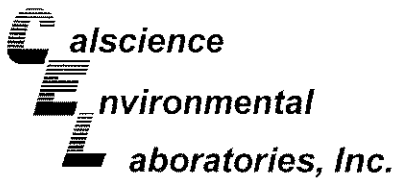
GB-22-40	08-09-1153-5-A	09/10/08 14:31	Aqueous	ICP/MS A	09/15/08	09/19/08 00:21	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-18-25	08-09-1153-6-A	09/10/08 15:34	Aqueous	ICP/MS A	09/15/08	09/19/08 00:24	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 09/12/08
 Work Order No: 08-09-1153
 Preparation: EPA 3005A Filt.
 Method: EPA 200.8

Project: Site K

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GB-17-20	08-09-1153-7-A	09/09/08 14:48	Aqueous	ICP/MS A	09/15/08	09/16/08 18:43	080915L03F

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-21-25	08-09-1153-8-A	09/11/08 09:05	Aqueous	ICP/MS A	09/15/08	09/19/08 00:28	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-23-25	08-09-1153-9-A	09/11/08 10:35	Aqueous	ICP/MS A	09/15/08	09/19/08 00:31	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-20-25	08-09-1153-10-A	09/11/08 12:20	Aqueous	ICP/MS A	09/15/08	09/19/08 00:34	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

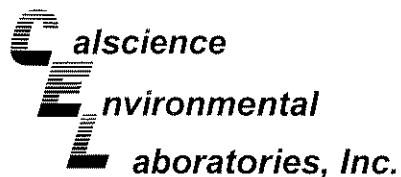
GB-23-30	08-09-1153-11-A	09/11/08 11:05	Aqueous	ICP/MS A	09/15/08	09/19/08 00:37	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-20-30	08-09-1153-12-A	09/11/08 12:38	Aqueous	ICP/MS A	09/15/08	09/19/08 00:40	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/12/08
Work Order No: 08-09-1153
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project: Site K

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GB-21-30	08-09-1153-18-A	09/11/08 09:27	Aqueous	ICP/MS A	09/15/08	09/19/08 00:43	080915L03F

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

GB-19-25	08-09-1153-19-A	09/11/08 13:54	Aqueous	ICP/MS A	09/15/08	09/19/08 01:06	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

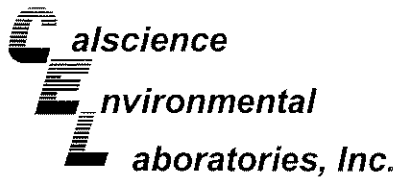
GB-19-30	08-09-1153-20-A	09/11/08 14:15	Aqueous	ICP/MS A	09/15/08	09/19/08 01:09	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

Method Blank	099-10-008-1,077	N/A		Aqueous	ICP/MS A	09/15/08	09/16/08 17:14	080915L03F
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 09/12/08
 Work Order No: 08-09-1153
 Preparation: EPA 3050B
 Method: EPA 6020

Project: Site K

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GB-16-4-5	08-09-1153-13-A	09/10/08 08:33	Solid	ICP/MS A	09/12/08	09/18/08 23:47	080912L03

Parameter	Result	RL	DF	Qual	Units
Lead	3.93	0.100	1		mg/kg

GB-22-4-5	08-09-1153-14-A	09/10/08 10:37	Solid	ICP/MS A	09/12/08	09/18/08 23:50	080912L03
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Parameter	Result	RL	DF	Qual	Units
Lead	4.10	0.100	1		mg/kg

GB-18-4-5	08-09-1153-15-A	09/10/08 14:55	Solid	ICP/MS A	09/12/08	09/18/08 23:53	080912L03
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Parameter	Result	RL	DF	Qual	Units
Lead	6.42	0.100	1		mg/kg

GB-21-3-4	08-09-1153-16-A	09/11/08 08:35	Solid	ICP/MS A	09/12/08	09/18/08 23:56	080912L03
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Parameter	Result	RL	DF	Qual	Units
Lead	5.17	0.100	1		mg/kg

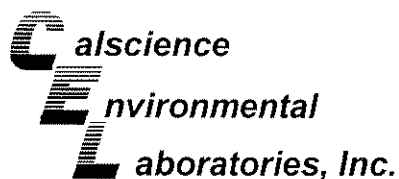
GB-20-13.5-15	08-09-1153-17-A	09/11/08 12:05	Solid	ICP/MS A	09/12/08	09/19/08 00:00	080912L03
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Parameter	Result	RL	DF	Qual	Units
Lead	5.11	0.100	1		mg/kg

Method Blank	096-10-002-1,218	N/A		Solid	ICP/MS A	09/12/08	09/15/08 13:16	080912L03
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Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

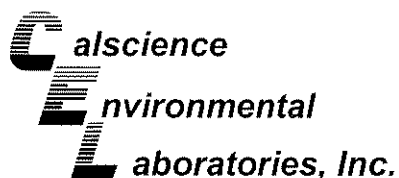
Date Received: 09/12/08
Work Order No: 08-09-1153
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GB-17-20	Aqueous	ICP/MS A	09/15/08	09/16/08	080915S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	105	80-120	3	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - PDS / PDSD

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

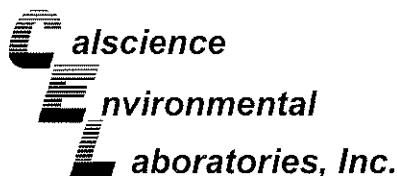
Date Received 09/12/08
 Work Order No: 08-09-1153
 Preparation: EPA 3005A Filtr.
 Method: EPA 200.8

Project: Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
GB-17-20	Aqueous	ICP/MS A	09/15/08	09/16/08	080915S03

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	101	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

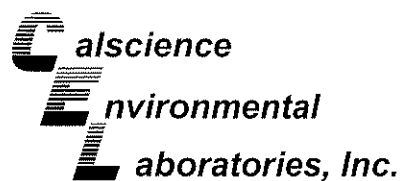
Date Received: 09/12/08
Work Order No: 08-09-1153
Preparation: EPA 3020A Total
Method: EPA 200.8

Project Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-09-1129-1	Aqueous	ICP/MS A	09/15/08	09/17/08	080915S03A

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	109	113	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD

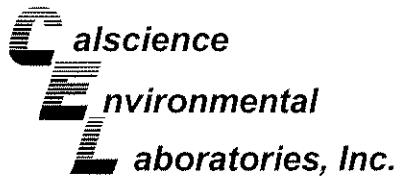
Kiff Analytical	Date Received	09/12/08
2795 2nd Street, Suite 300	Work Order No:	08-09-1153
Davis, CA 95616-6593	Preparation:	EPA 3020A Total
	Method:	EPA 200.8

Project Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
08-09-1129-1	Aqueous	ICP/MS A	09/15/08	09/17/08	080915S03A

Parameter	PDS %REC	%REC CL	Qualifiers
Lead	108	75-125	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

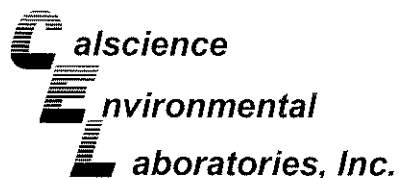
Date Received: 09/12/08
 Work Order No: 08-09-1153
 Preparation: EPA 3050B
 Method: EPA 6020

Project Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-1159-6	Solid	ICP/MS A	09/12/08	09/15/08	080912S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	107	104	62-134	3	0-23	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

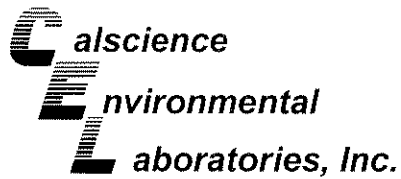
Date Received: N/A
Work Order No: 08-09-1153
Preparation: EPA 3005A Filt.
Method: EPA 200.8

Project: Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-1,077	Aqueous	ICP/MS A	09/15/08	09/16/08	080915L03F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	100	85-115	2	0-20	

RPD - Relative Percent Difference . CL - Control Limit



Quality Control - LCS/LCS Duplicate

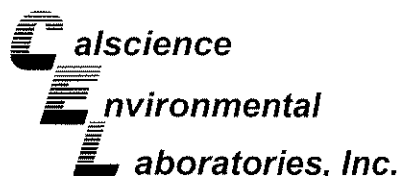
Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	08-09-1153
Davis, CA 95616-6593	Preparation:	EPA 3050B
	Method:	EPA 6020

Project: Site K

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-10-002-1,218	Solid	ICP/MS A	09/12/08	09/15/08	080912L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	98	80-120	3	0-20	

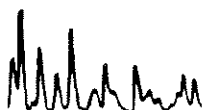
RPD - Relative Percent Difference, CL - Control Limit



Glossary of Terms and Qualifiers

Work Order Number: 08-09-1153

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2795 Second Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4808

Calsciencce
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 714-895-5494

1153
 COC No. 64701

Project Contact (Hardcopy or PDF to): **Scott Forbes** EDF Report? **YES** Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical** Recommended but not mandatory to complete this section:

Phone No.: **530-297-4800** FAX No.: **530-297-4808** Sampling Company Log Code: **KFS**

Project Number: **92451** P.O. No.: **64701** Global ID: **T0619763665**

Project Name: **Site K** Deliverables to (Email Address): **inbox@kiffanalytical.com**

Sample Designation	Date	Time	Container / Preservative								Matrix		ICP-MS 200.8 Dissolved (1)	ICP-MS 6020 (1)	4-Days	For Lab Use Only
			250ml Poly None	Glass Jar / None							Soil	Water				
GB-16-30	09/10/08	09:45	1									X			X	1
GB-16-35	09/10/08	10:10	1									X			X	2
GB-22-25	09/10/08	11:30	1									X			X	3
GB-22-30	09/10/08	12:35	1									X			X	4
GB-22-40	09/10/08	14:31	1									X			X	5
GB-18-25	09/10/08	15:34	1									X			X	6
GB-17-20	09/09/08	14:48	1									X			X	7
GB-21-25	09/11/08	09:05	1									X			X	8
GB-23-25	09/11/08	10:35	1									X			X	9
GB-20-25	09/11/08	12:20	1									X			X	10

Relinquished by: *[Signature]* Date: **09/10/08** Time: **1900** Received by:

Relinquished by: Date: Time: Received by:

Relinquished by: **00810225198851** Date: **9/12/08** Time: **0800** Received by Laboratory: **Wobahn CA**

Remarks: Please refer to attached Test Detail.

Bill to: **Accounts Payable**



2795 Second Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4808

Calscience
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 714-895-5494

(1153)
 COC No. 64701

Project Contact (Hardcopy or PDF to): **Scott Forbes** EDF Report? **YES** Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical** Recommended but not mandatory to complete this section: Analysis Request TAT

Phone No.: **530-297-4800** FAX No.: **530-297-4808** Sampling Company Log Code: **KFS** Global ID: **T0619763665**

Project Number: **92451** P.O. No.: **64701** Deliverables to (Email Address): **inbox@kiffanalytical.com**

Project Name: **Site K** Container / Preservative Matrix

Project Address: Sampling 250ml Poly None Glass Jar / None Soil Water ICP-MS 200.8 Dissolved (1) ICP-MS 6020 (1) 4-Days For Lab Use Only

Sample Designation	Date	Time	250ml Poly None	Glass Jar / None	Matrix		ICP-MS 200.8 Dissolved (1)	ICP-MS 6020 (1)	4-Days	For Lab Use Only
					Soil	Water				
GB-23-30	09/11/08	11:05	1			X	X		X	11
GB-20-30	09/11/08	12:38	1			X	X		X	12
GB-16-4-5	09/10/08	08:33	1		X		X		X	13
GB-22-4-5	09/10/08	10:37	1		X		X		X	14
GB-18-4-5	09/10/08	14:55	1		X		X		X	15
GB-21-3-4	09/11/08	08:35	1		X		X		X	16
GB-20-13.5-15	09/11/08	12:05	1		X		X		X	17
GB-21-30	09/11/08	09:27	1		X		X		X	18
GB-19-25	09/11/08	13:54	1		X		X		X	19
GB-19-30	09/11/08	14:15	1		X		X		X	20

Relinquished by: *[Signature]* Date: **09/10/08** Time: **1900** Received by: Remarks: Please refer to attached Test Detail.

Relinquished by: Date: Time: Received by: Bill to: **Accounts Payable**

Relinquished by: **COB1022519887** Date: **9/12/08** Time: **0800** Received by Laboratory: *[Signature]*

1153

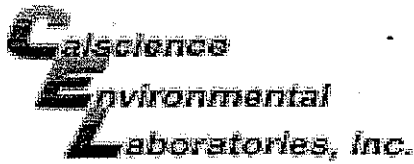
Test Detail for Kiff Work Order: 64701

ICP-MS 200.8 Dissolved (1)

Lead

ICP-MS 6020 (1)

Lead



WORK ORDER #: 08 - 09 - 1153

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIPP ANALYTICAL

DATE: 9-12-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature (For Air & Filter only).

LABORATORY (Other than CalScience Courier):

- 4.2 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature (For Air & Filter only).

°C Temperature blank.

Initial: WBS

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact) : _____ Not Present: _____

Initial: WBS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOA vial(s) free of headspace.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: WBS

COMMENTS:

PROJECT NO. 92451		PROJECT NAME Site K		NO. OF CON- TAINERS	TYPE OF CON- TAINERS	ANALYSIS	RECEIVING LAB: KIFF STAT/EDF INSTRUCTIONS/REMARKS Retain Remainder of soil for possible further analysis																
L.P. NO. (P.O. NO.)		SAMPLERS: (Signature/Number)					DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	Total Lead (6010)	TPH - Gas (8260)	BTEX (8260)	5-Compounds (8260)	1,2,4-DEA +ED8 (8260)	Dissolved Lead (8260)	Total Lead (6010)						
Pace Home/699																							
1	9/10/08	0945	GB-16-30	Water	5		X	X	X	X	X	X											09
2		1010	GB-16-35				X	X	X	X	X	X											02
3		1130	GB-22-25				X	X	X	X	X	X											03
4		1235	GB-22-30				X	X	X	X	X	X											04
5		1431	GB-22-40				X	X	X	X	X	X											05
6		1534	GB-18-25				X	X	X	X	X	X											06
7	9-9-08	1448	GB-17-20				X	X	X	X	X	X											07
8	9-11-08	0905	GB-21-25				X	X	X	X	X	X											08
9		1035	GB-23-25				X	X	X	X	X	X											09
10		1220	GB-20-25				X	X	X	X	X	X											10
11		1105	GB-23-30				X	X	X	X	X	X											11
12		1238	GB-20-30				X	X	X	X	X	X											12
13	9/10/08	0833	GB-16-4-5	Soil	1	Poly Lin	X	X	X	X	X	X											13
14		1037	GB-22-4-5				X	X	X	X	X	X											14
15		1455	GB-18-4-5				X	X	X	X	X	X											15
16	9/11/08	0835	GB-21-3-4				X	X	X	X	X	X											16
17		091108 1205																					
18	9/11/08	1205	GB-20-135-15	Soil	1	Poly Lin	X	X	X	X	X	X											17

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 9/11/08 1648	Received by: (Signature) _____	Instructions/Remarks: * * 4- 40 mL HCl VOAs 1- 250 ML Poly	Send Results To: pwec@kleinfelder.com sgardner@kleinfelder.com
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____		
Relinquished by: (Signature) _____	Date/Time 091108 1648	Received for Laboratory by: (Signature) <i>[Signature]</i>		

Time 1627 Coolant present (Yes) No

Attr: Sue Gardner & Pam Wee



64701

PROJECT NO. 92451	PROJECT NAME Sitek			NO OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS										RECEIVING LAB:	
	L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number)				Total Lead (6010)	TPH-Gas (8260)	BTEX (8260)	5-Organics (8260)	LZ DCA (8260)	Dissolved Lead (200.8)	INSTRUCTIONS/REMARKS					
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX														
9/11/08	0927	GB-21-30	Water	S	*	X	X	X	X	X	X	X	X	X			
↓	1354	GB-19-25	↓	↓	↓	X	X	X	X	X	X	X	X	X	EDF Required		
↓	1415	GB-19-30	↓	↓	↓	X	X	X	X	X	X	X	X	X	Global ID # T0619763665		

18
19
20

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time 9/11/08 1648	Received by: (Signature) _____	Instructions/Remarks: * 1- 250 mL Poly 4- 40ML UOAs	Send Results To: Kleinfelder 3077 Fite Circle Sacramento, CA 95827
Relinquished by: (Signature) _____	Date/Time	Received by: (Signature) _____		Attn: Pam Wee pwee@kleinfelder.com Sue Gardner sgardner@kleinfelder.com
Relinquished by: (Signature) _____	Date/Time 09/10/8 1648	Received for Laboratory by: (Signature) <i>[Signature] Kiff Analytical</i>		



Report Number : 64854

Date : 09/25/2008

Sue Gardner
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 1 Soil Sample
Project Name : SITE "K"
Project Number : 92451-1

Dear Ms. Gardner,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 64854

Date : 09/25/2008

Subject : 1 Soil Sample

Project Name : SITE "K"

Project Number : 92451-1

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample LB-2-5 for the analyte Lead were affected by the analyte concentrations already present in the un-spiked sample.



Report Number : 64854

Date : 09/25/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Sample : **LB-2-5**

Matrix : Soil

Lab Number : 64854-01

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	910	5.0	mg/Kg	EPA 6010B	09/25/2008

Report Number : 64854

Date : 09/25/2008

QC Report : Method Blank Data

Project Name : **SITE "K"**

Project Number : **92451-1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/25/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64854

Date : 09/25/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **SITE "K"**

Project Number : **92451-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Lead	64854-01	910	50.0	50.0	765	700	mg/Kg	EPA 6010B	9/25/08	0.00	0.00	8.84	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64854

QC Report : Laboratory Control Sample (LCS)

Date : 09/25/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	9/25/08	105	85-115

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800



64854

PROJECT NO. 92451-1		PROJECT NAME SITE "K"		NO. OF CON- TAINERS	TYPE OF CON- TAINERS	ANALYSIS TOTAL LEAD (60%)	RECEIVING LAB: KIFF													
I.F. NO. (P.O. NO.)		SAMPLERS (Signature/Number) Brian E. Hoxer / 644					INSTRUCTIONS/REMARKS RETAIN REMAINDER OF SOIL FOR POSS. FURTHER TESTING													
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX																	
1	9-9-08	0939	LB-2-5	SOIL	1	*														
2																				
3																				
4																				
5																				
6							EDF REQUIRED GLOBAL ID # T0619163665													
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

Relinquished by: (Signature) Brian E. Hoxer	Date/Time 9/10/08 1605	Received by: (Signature) _____	Instructions/Remarks: * POLY TUBE (GEOPROBE) STANDARD TAT	Send Results To: PWce e sgardner@kleinfelder.com
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____		
Relinquished by: (Signature) _____	Date/Time 09/10/08 1605	Received for Laboratory by: (Signature) K. P. Analytical		

CHAIN OF CUSTODY



Report Number : 64854

Date : 09/25/2008

Sue Gardner
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 1 Soil Sample
Project Name : SITE "K"
Project Number : 92451-1

Dear Ms. Gardner,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Jbel Kiff



Report Number : 64854

Date : 09/25/2008

Subject : 1 Soil Sample
Project Name : SITE "K"
Project Number : 92451-1

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample LB-2-5 for the analyte Lead were affected by the analyte concentrations already present in the un-spiked sample.



Report Number : 64854

Date : 09/25/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Sample : **LB-2-5**

Matrix : Soil

Lab Number : 64854-01

Sample Date :09/09/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	910	5.0	mg/Kg	EPA 6010B	09/25/2008

Report Number : 64854

Date : 09/25/2008

QC Report : Method Blank Data

Project Name : **SITE "K"**

Project Number : **92451-1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/25/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64854

Date : 09/25/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : SITE "K"

Project Number : 92451-1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Lead	64854-01	910	50.0	50.0	765	700	mg/Kg	EPA 6010B	9/25/08	0.00	0.00	8.84	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 64854

Date : 09/25/2008

QC Report : Laboratory Control Sample (LCS)

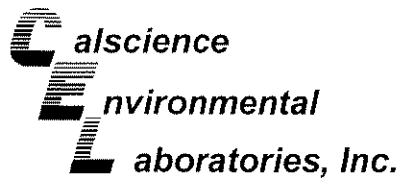
Project Name : **SITE "K"**

Project Number : **92451-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	9/25/08	105	85-115

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800



October 10, 2008

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **CalScience Work Order No.: 08-10-0334**
Client Reference: **Site "K"**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/4/2008 and analyzed in accordance with the attached chain-of-custody.

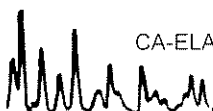
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

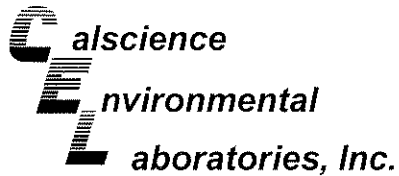
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads 'Amanda Porter'.

CalScience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager





Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 10/04/08
Work Order No: 08-10-0334
Preparation: T22.11.5. All
Method: EPA 6010B

Project: Site "K"

Page 1 of 1

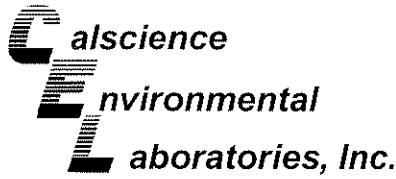
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
LB-2-5	08-10-0334-1-A	09/09/08 09:39	Solid	ICP 5300	10/06/08	10/08/08 12:38	081008LA2

Parameter	Result	RL	DF	Qual	Units
Lead	28.1	0.100	1		mg/L

Method Blank	097-05-006-4,293	N/A	Solid	ICP 5300	10/06/08	10/08/08 12:30	081008LA2
--------------	------------------	-----	-------	----------	----------	-------------------	-----------

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Kiff Analytical
 2795 2nd Street, Suite 300
 Davis, CA 95616-6593

Date Received: 10/04/08
 Work Order No: 08-10-0334
 Preparation: T22.11.5. All
 Method: EPA 6010B

Project Site "K"

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-0178-5	Solid	ICP 5300	10/06/08	10/08/08	081008SA2

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	99	102	75-125	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

alscience
Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.

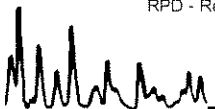
Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	08-10-0334
Davis, CA 95616-6593	Preparation:	T22.11.5. All
	Method:	EPA 6010B

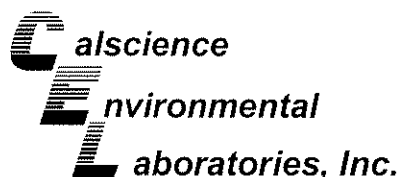
Project: Site "K"

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-4,293	Solid	ICP 5300	10/08/08	081008-1a-2	081008LA2

<u>Parameter</u>	<u>Conc Added</u>	<u>Conc Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Lead	5.00	5.37	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit





Glossary of Terms and Qualifiers

Work Order Number: 08-10-0334

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2795 Second Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4808

Calscience
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 714-895-5494

0334

COC No. **64854** Page 1 of 1

Project Contact (Hardcopy or PDF to): **Scott Forbes** EDF Report? **YES** Chain-of-Custody Record and Analysis Request

Company/Address: **Kiff Analytical** Recommended but not mandatory to complete this section:
 Sampling Company Log Code: **KFS** Analysis Request TAT

Phone No.: **530-297-4800** FAX No.: **530-297-4808** Global ID: **T0619763665**

Project Number: **92451-1** P.O. No.: **64854** Deliverables to (Email Address): **inbox@kiffanalytical.com**

Project Name: **SITE "K"** Container / Preservative Matrix

Project Address: **SITE "K"** Sampling

Sample Designation	Date	Time	Container / Preservative										Matrix		WET Lead (Citrate Buffer)	Waste Extraction Test Prep	TAT	For Lab Use Only			
			Sleeve	None															Soil		
LB-2-5	09/09/08	09:39	1													X	X			X	

Relinquished by: <i>[Signature]</i>	Date: 10/03/08	Time: 1900	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by Laboratory: <i>[Signature]</i> (EF) 10/04/08 9:40	
Bill to: Accounts Payable				

BIO225199332

WORK ORDER #: **08** - 1 0 - 0 3 3 4

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 10-04-08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

LABORATORY (Other than Calscience Courier):

<p>_____ Chilled, cooler with temperature blank provided. <u>04.0</u> °C Temperature blank.</p> <p>_____ Chilled, cooler without temperature blank. _____ °C IR Thermometer.</p> <p>_____ Chilled and placed in cooler with wet ice. _____ Ambient temperature (For Air & Filter Only).</p> <p>_____ Ambient and placed in cooler with wet ice.</p> <p>_____ Ambient temperature (For Air & Filter Only).</p> <p>_____ °C Temperature blank.</p>	<p>Initial: <u>EW</u></p>
--	---------------------------

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact) : _____ Not Present: _____

Initial: EW

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	/		
Sampler's name indicated on COC.....		/	
Sample container label(s) consistent with custody papers.....	/		
Sample container(s) intact and good condition.....	/		
Correct containers and volume for analyses requested.....	/		
Proper preservation noted on sample label(s).....			/
VOA vial(s) free of headspace.			/
Tedlar bag(s) free of condensation.....			/

Initial: EW

COMMENTS:



64854

PROJECT NO.		PROJECT NAME		NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS	RECEIVING LAB:			
L.P. NO. (PD. NO.)		SAMPLERS: (Signature/Number)					KIFF			
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX				INSTRUCTIONS/REMARKS			
9-9-08	0939	LB-2-5	SOIL	1	*	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> TOTAL LEAD (6010) </div> RETAIN REMAINDER OF SOIL FOR POSS. FURTHER TESTING EDF REQUIRED GLOBAL ID # T0619763665				

Relinquished by: (Signature) <i>Brian E. Hona</i>	Date/Time 9/10/08 1605	Received by: (Signature) _____	Instructions/Remarks: * POLY TUBE (GEOPROBE) STANDARD TAT	Send Results To: Pwce e sgardner@kleinfelder.com
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____		
Relinquished by: (Signature) _____	Date/Time 09/10/08 1605	Received for Laboratory by: (Signature) <i>[Signature]</i> Analytical		SAMPLE RECEIPT, R2 Attn: Temp °C <u>30.6</u> Therm. ID# <u>12</u> Initial <u>JL</u> Date <u>09/10/08</u> Time <u>1605</u>



Report Number : 65104

Date : 10/07/2008

Pam Wee
Kleinfelder, Inc.
3077 Fite Circle
Sacramento, CA 95827

Subject : 9 Soil Samples
Project Name : SITE "K"
Project Number : 92451-1

Dear Ms. Wee,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 65104

Date : 10/07/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Sample : **LB-1-5**

Matrix : Soil

Lab Number : 65104-01

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	7.7	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-3-5**

Matrix : Soil

Lab Number : 65104-02

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	5.9	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-4-5**

Matrix : Soil

Lab Number : 65104-03

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	58	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-5-5**

Matrix : Soil

Lab Number : 65104-04

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	8.5	0.50	mg/Kg	EPA 6010B	10/07/2008



Report Number : 65104

Date : 10/07/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Sample : **LB-6-5**

Matrix : Soil

Lab Number : 65104-05

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	10	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-7-5**

Matrix : Soil

Lab Number : 65104-06

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	11	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-8-5**

Matrix : Soil

Lab Number : 65104-07

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	10	0.50	mg/Kg	EPA 6010B	10/07/2008

Sample : **LB-9-5**

Matrix : Soil

Lab Number : 65104-08

Sample Date :09/09/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	56	0.50	mg/Kg	EPA 6010B	10/07/2008



Report Number : 65104

Date : 10/07/2008

Project Name : **SITE "K"**

Project Number : **92451-1**

Sample : **LB-10-5**

Matrix : Soil

Lab Number : 65104-09

Sample Date :09/09/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	53	0.50	mg/Kg	EPA 6010B	10/07/2008

Report Number : 65104

Date : 10/07/2008

QC Report : Method Blank Data

Project Name : **SITE "K"**

Project Number : **92451-1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	10/03/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 65104

Date : 10/07/2008

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **SITE "K"**

Project Number : **92451-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Lead	65112-01	5.4	50.0	50.0	56.8	56.4	mg/Kg	EPA 6010B	10/3/08	103	102	0.618	75-125	20

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 65104

Date : 10/07/2008

QC Report : Laboratory Control Sample (LCS)

Project Name : **SITE "K"**

Project Number : **92451-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	10/3/08	106	85-115

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

PROJECT NO.		PROJECT NAME		NO.	TYPE	ANALYSIS	RECEIVING LAB:			
L.P. NO. (P.O. NO.)		SAMPLES: (Signature/Number)						OF	OF	KIFE
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX							
1	9-9-08	0905	LB1-5	SOIL	1	POLY TUBE	X	EDF REQUIRED GLOBAL IS# T0619763065	01	
2		1015	LB3-5		1		X		02	
3		1044	LB4-5		1		X		03	
4		1114	LB5-5		1		X		04	
5		1143	LB-6-5		1		X		05	
6		1214	LB-7-5		1		X		06	
7		1245	LB-8-5		1		X		07	
8		1315	LB-9-5		1		X		08	
9		1345	LB-10-5		1		X		09	
10										
11			LB-2-5				XX	* LB-2-5 IS ON HOLD AT KIFE LABORATORY IN DAVIS, CA ALREADY		
12										
13										
14										
15										
16										
17										
18								SAMPLE RECEIPT Temp °C <u>11.0</u> Therm. ID# <u>TR-2</u> Initial <u>RUN</u> date <u>10-1-08</u> Time <u>1530</u> Coolant present: <u>Yes</u> No		
19										
20										
Relinquished by: (Signature) <i>Erin E. Honer</i>		Date/Time <i>9/12/08 0730</i>		Received by: (Signature) <i>KA SAMPLE CONTRACT</i>		Instructions/Remarks:			Send Results To: <i>Pwee sgardner@kleinfelder.com</i>	
Relinquished by: (Signature) <i>SAMPLE CONTRACT</i>		Date/Time <i>10-1-08 1115</i>		Received by: (Signature) <i>John B...</i>						
Relinquished by: (Signature) <i>John B...</i>		Date/Time <i>10-1-08 1536</i>		Received for Laboratory by: (Signature) <i>Korrie Lee Kiffe Analytical</i>					Attn:	

APPENDIX E

STATISTICAL CALCULATIONS

CALCULATION OF SOIL UPPER CONFIDENCE LIMIT

Soil lead data were subjected to statistical analysis using ProUCL Version 4.0 software published by the USEPA Office of Research and Development to calculate the upper confidence limit on the soil concentration mean at the 95% level (95% UCL). The data were analyzed as a combined set and several subsets, including near-surface soils (0-3.5 feet bgs), and subsurface soils (> 3.5 feet bgs). Attention was also given to four samples in particular. Soil boring LB-1 is located outside the expected extent of lead impacts from the former building activities, and may not be representative of soil conditions nearer the former building location. Three samples were collected from boring LB-1. Also, inspection of the soil data shows the lead concentration in sample LB-2-5 (910 mg/kg) is much greater than any other result, and may not represent average soil conditions. The data subsets were evaluated with and without data from these four samples. The evaluation process is described in the following paragraphs.

Outlier Tests

Outlier evaluation using the Rosner test and Dixon tests was performed on the combined data set and on subsets representing near-surface soil and subsurface soil. The ProUCL software identified the 910 mg/kg concentration in sample LB-2-5 as a statistical outlier at the 1% significance level for combined data set and the subsurface data set. This signifies that there is less than a 1% probability that the result is representative of the average soil conditions. This may be because of a sampling anomaly, or may be related to localized high concentrations that differ from the rest of the site. The data sets were evaluated with and without the 910 mg/kg result.

Goodness of Fit

Lilliefors and Shapiro-Wilk tests were performed on each data set to evaluate whether the data sets fit either a normal (Gaussian) or a lognormal distribution. Gamma distribution tests were performed on each data set to evaluate fit with a gamma distribution. None of the data sets were normally distributed. The surface soil subset appeared to fit both lognormal and gamma distributions. The combined data set and the subsurface subset did not exhibit any discernable pattern. The surface soil subset was evaluated by calculating the gamma UCL. The combined data set and the subsurface soil subset were evaluated using several nonparametric methods.

Calculation of UCLs

The UCL was calculated for each data set under several conditions. Output from the ProUCL software is attached following the text in this Appendix.

The combined soil data set was evaluated with 1) all samples, 2) the outlier result omitted, 3) the results from LB-1 omitted, and 4) the outlier and LB-1 results omitted. Non-parametric methods were used because the data did not fit a discernable pattern. Based on the data set characteristics (size and standard deviation), the ProUCL software recommended use of the UCL calculated by the Chebyshev inequality method at the 97.5% confidence level. Omission of data from LB-1 caused the UCL to increase slightly. Inclusion of the outlier predictably increased the variance of the data and the UCL. Based on the depth from which the outlier sample was collected and the magnitude of departure from the next lower analytical values, the selected UCL for the combined data set was based on results without LB-1 and outlier data. The mean concentration was calculated as 80.5 mg/kg and the 97.5% UCL is 191.8 mg/kg.

The surface soil data set was evaluated with 1) all samples and 2) the results from LB-1 omitted. The surface soil data fit the lognormal and gamma distributions. Calculation of UCLs from methods based on the gamma distribution are considered more reliable than calculations based on log-transformed data, so the ProUCL software recommended use of the UCL calculated by the approximate gamma method at the 95% confidence level. Again, omission of data from LB-1 caused the UCL to increase slightly. The selected UCL for the surface soil data set was based on results without LB-1. The mean concentration was calculated as 58.9 mg/kg and the 95% UCL is 215.4 mg/kg.

The subsurface soil data set was evaluated with 1) all samples, 2) the outlier result omitted, and 3) the outlier and LB-1 results omitted. Again, non-parametric methods were used because the data did not fit a discernable pattern. Because the data subsets are smaller, the ProUCL software recommended use of the UCL calculated by the Chebyshev inequality method at the 99% confidence level. As with the combined data set, the selected UCL for the combined data set was based on results without LB-1 and outlier data. The mean concentration was calculated as 25.6 mg/kg and the 99% UCL is 117.4 mg/kg.

Evaluation of Results

For statistical analysis of the combined data set to be valid, the collected data are required to be drawn from one population. Because of the former use of the building location as a shooting range, it would be expected that the near-surface soils would exhibit different characteristics from the subsurface soils. The data were evaluated as a combined set and as two subsets. Because the results from evaluation of the subsets differ from the results of the combined data set evaluation, it was judged that separate evaluations are more representative of site conditions.

Because of the depth at which the outlier result was obtained, it is unlikely to have been caused by shooting range activities. Although it may be the result of demolition activities, it is judged more likely to be an anomalous result. Either way, it is not representative of the average soil conditions. Consequently, it was omitted from the statistical analysis of the data sets. However, if including the outlier result in UCL calculations is required, the results the surface soil results are unaffected. The subsurface UCL would increase from 117.4 to 408.1 mg/kg. However, in this case, use of the 99% Chebyshev UCL is probably overly conservative. The 97.5% Chebyshev UCL for this case is 278.1 mg/kg, and would be the proposed UCL for the subsurface soil if the outlier result is included.

Outlier Tests for Selected Variables

User Selected Options

From File U:\MLawson\Projects\92451 CHP Oakland\Full Lead Sample Set.wst

Full Precision OFF

Test for Suspected Outliers with Dixon test 1

Test for Suspected Outliers with Rosner test 1

Rosner's Outlier Test for All Samples

Number of data: 53

Number of suspected outliers: 1

			Potential	Test	Critical	Critical
#	Mean	sd	outlier	value	value (5%)	value (1%)
1	93.31	166.44	910	4.91	3.151	3.504

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 910 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 910 is a Potential Statistical Outlier

Rosner's Outlier Test for Surface Samples

Number of data: 27

Number of suspected outliers: 1

			Potential	Test	Critical	Critical
#	Mean	sd	outlier	value	value (5%)	value (1%)
1	126.4	149.99	562	2.9	2.86	3.18

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 562 is a Potential Statistical Outlier

For 1% Significance Level, there is no Potential Outlier

Rosner's Outlier Test for Subsurface Samples

Number of data: 26

Number of suspected outliers: 1

			Potential	Test	Critical	Critical
#	Mean	sd	outlier	value	value (5%)	value (1%)
1	58.94	175.47	910	4.85	2.84	3.16

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 910 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Therefore, Observation 910 is a Potential Statistical Outlier

General UCL Statistics for Full Data Sets	
User Selected Options	
From File	U:\MLawson\Projects\92451 CHP Oakland\Full Lead Sample Set.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000
All Samples	
General Statistics	
Number of Valid Observations	53
Number of Distinct Observations	47
Number of Missing Values	1
Raw Statistics	
Minimum	0.5
Maximum	910
Mean	93.31
Median	14
SD	168
Coefficient of Variation	1.801
Skewness	3.023
Log-transformed Statistics	
Minimum of Log Data	-0.693
Maximum of Log Data	6.813
Mean of log Data	3.24
SD of log Data	1.686
Relevant UCL Statistics	
Normal Distribution Test	
Lilliefors Test Statistic	0.29
Lilliefors Critical Value	0.122
Data not Normal at 5% Significance Level	
Assuming Normal Distribution	
95% Student's-t UCL	132
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	141.5
95% Modified-t UCL	133.6
Lognormal Distribution Test	
Lilliefors Test Statistic	0.168
Lilliefors Critical Value	0.122
Data not Lognormal at 5% Significance Level	
Assuming Lognormal Distribution	
95% H-UCL	215.3
95% Chebyshev (MVUE) UCL	239
97.5% Chebyshev (MVUE) UCL	299.3
99% Chebyshev (MVUE) UCL	417.8
Gamma Distribution Test	
k star (bias corrected)	0.476
Theta Star	195.9
nu star	50.48
Approximate Chi Square Value (.05)	35.16
Adjusted Level of Significance	0.0455
Adjusted Chi Square Value	34.81
Anderson-Darling Test Statistic	2.687
Anderson-Darling 5% Critical Value	0.817
Kolmogorov-Smirnov Test Statistic	0.222
Kolmogorov-Smirnov 5% Critical Value	0.129
Data not Gamma Distributed at 5% Significance Level	
Assuming Gamma Distribution	
95% Approximate Gamma UCL	133.9
95% Adjusted Gamma UCL	135.3
Potential UCL to Use	
Use 97.5% Chebyshev (Mean, Sd) UCL 237.5	

All Samples Minus Outlier

General Statistics

Number of Valid Observations	52	Number of Distinct Observations	46
Number of Missing Values	2		

Raw Statistics

Minimum	0.5
Maximum	562
Mean	77.6
Median	14
SD	124.3
Coefficient of Variation	1.602
Skewness	2.231

Log-transformed Statistics

Minimum of Log Data	-0.693
Maximum of Log Data	6.332
Mean of log Data	3.171
SD of log Data	1.625

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.274
Lilliefors Critical Value	0.123

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.167
Lilliefors Critical Value	0.123

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	106.5
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95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	111.7
95% Modified-t UCL	107.4

Assuming Lognormal Distribution

95% H-UCL	176.9
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95% Chebyshev (MVUE) UCL	198.2
97.5% Chebyshev (MVUE) UCL	247.4
99% Chebyshev (MVUE) UCL	344

Gamma Distribution Test

k star (bias corrected)	0.515
Theta Star	150.7
nu star	53.55

Approximate Chi Square Value (.05)	37.74
Adjusted Level of Significance	0.0454
Adjusted Chi Square Value	37.36

Anderson-Darling Test Statistic	2.589
Anderson-Darling 5% Critical Value	0.812
Kolmogorov-Smirnov Test Statistic	0.226
Kolmogorov-Smirnov 5% Critical Value	0.13

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	110.1
95% Adjusted Gamma UCL	111.2

Potential UCL to Use

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	106
95% Jackknife UCL	106.5
95% Standard Bootstrap UCL	105.8
95% Bootstrap-t UCL	117.9
95% Hall's Bootstrap UCL	110.3
95% Percentile Bootstrap UCL	106.6
95% BCA Bootstrap UCL	111.5
95% Chebyshev(Mean, Sd) UCL	152.8
97.5% Chebyshev(Mean, Sd) UCL	185.3
99% Chebyshev(Mean, Sd) UCL	249.2

Use 97.5% Chebyshev (Mean, Sd) UCL 185.3

All Samples Minus LB-1

General Statistics

Number of Valid Observations	51	Number of Distinct Observations	45
Number of Missing Values	3		

Raw Statistics

Minimum	0.77
Maximum	910
Mean	96.81
Median	14
SD	170.4
Coefficient of Variation	1.76
Skewness	2.962

Log-transformed Statistics

Minimum of Log Data	-0.261
Maximum of Log Data	6.813
Mean of log Data	3.341
SD of log Data	1.615

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.287
Lilliefors Critical Value	0.124

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.178
Lilliefors Critical Value	0.124

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	136.8
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95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	146.6
95% Modified-t UCL	138.4

Assuming Lognormal Distribution

95% H-UCL	207.4
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95% Chebyshev (MVUE) UCL	230.5
97.5% Chebyshev (MVUE) UCL	287.7
99% Chebyshev (MVUE) UCL	400.1

Gamma Distribution Test

k star (bias corrected)	0.496
Theta Star	195.1
nu star	50.62

Approximate Chi Square Value (.05) 35.28

Adjusted Level of Significance	0.0453
Adjusted Chi Square Value	34.91

Anderson-Darling Test Statistic 2.673

Anderson-Darling 5% Critical Value 0.813

Kolmogorov-Smirnov Test Statistic 0.22

Kolmogorov-Smirnov 5% Critical Value 0.131

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	138.9
95% Adjusted Gamma UCL	140.4

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	136.1
95% Jackknife UCL	136.8
95% Standard Bootstrap UCL	136
95% Bootstrap-t UCL	159.5
95% Hall's Bootstrap UCL	167.5
95% Percentile Bootstrap UCL	137.3
95% BCA Bootstrap UCL	148.3
95% Chebyshev(Mean, Sd) UCL	200.8
97.5% Chebyshev(Mean, Sd) UCL	245.8
99% Chebyshev(Mean, Sd) UCL	334.2

Potential UCL to Use

Use 97.5% Chebyshev (Mean, Sd) UCL 245.8

All Samples Minus LB-1 and Outlier

General Statistics

Number of Valid Observations	50	Number of Distinct Observations	44
Number of Missing Values	4		

Raw Statistics

Minimum	0.77
Maximum	562
Mean	80.54
Median	14
SD	125.9
Coefficient of Variation	1.564
Skewness	2.174

Log-transformed Statistics

Minimum of Log Data	-0.261
Maximum of Log Data	6.332
Mean of log Data	3.271
SD of log Data	1.552

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.658
Shapiro Wilk Critical Value	0.947

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.922
Shapiro Wilk Critical Value	0.947

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	110.4
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95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	115.7
95% Modified-t UCL	111.3

Assuming Lognormal Distribution

95% H-UCL	169.1
-----------	-------

95% Chebyshev (MVUE) UCL	190.9
97.5% Chebyshev (MVUE) UCL	237.4
99% Chebyshev (MVUE) UCL	328.6

Gamma Distribution Test

k star (bias corrected)	0.539
Theta Star	149.6
nu star	53.85

Approximate Chi Square Value (.05)	37.99
Adjusted Level of Significance	0.0452
Adjusted Chi Square Value	37.6

Anderson-Darling Test Statistic	2.594
Anderson-Darling 5% Critical Value	0.809
Kolmogorov-Smirnov Test Statistic	0.225
Kolmogorov-Smirnov 5% Critical Value	0.132

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	114.2
95% Adjusted Gamma UCL	115.4

Potential UCL to Use

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	109.8
95% Jackknife UCL	110.4
95% Standard Bootstrap UCL	110
95% Bootstrap-t UCL	120
95% Hall's Bootstrap UCL	117.1
95% Percentile Bootstrap UCL	110.3
95% BCA Bootstrap UCL	117.3
95% Chebyshev(Mean, Sd) UCL	158.2
97.5% Chebyshev(Mean, Sd) UCL	191.8
99% Chebyshev(Mean, Sd) UCL	257.8

Use 97.5% Chebyshev (Mean, Sd) UCL 191.8

General UCL Statistics for Full Data Sets	
User Selected Options	
From File	U:\MLawson\Projects\92451 CHP Oakland\Full Lead Sample Set.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000
Surface Samples	
General Statistics	
Number of Valid Observations	27
Number of Missing Values	27
Number of Distinct Observations	26
Raw Statistics	
Minimum	0.5
Maximum	562
Mean	126.4
Median	64.2
SD	152.8
Coefficient of Variation	1.209
Skewness	1.419
Log-transformed Statistics	
Minimum of Log Data	-0.693
Maximum of Log Data	6.332
Mean of log Data	3.749
SD of log Data	1.884
Relevant UCL Statistics	
Normal Distribution Test	
Shapiro Wilk Test Statistic	0.791
Shapiro Wilk Critical Value	0.923
Data not Normal at 5% Significance Level	
Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.925
Shapiro Wilk Critical Value	0.923
Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution	
95% Student's-t UCL	176.6
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	183.4
95% Modified-t UCL	177.9
Assuming Lognormal Distribution	
95% H-UCL	994.4
95% Chebyshev (MVUE) UCL	655
97.5% Chebyshev (MVUE) UCL	845.9
99% Chebyshev (MVUE) UCL	1221
Gamma Distribution Test	
k star (bias corrected)	0.532
Theta Star	237.6
nu star	28.73
Approximate Chi Square Value (.05)	17.49
Adjusted Level of Significance	0.0401
Adjusted Chi Square Value	16.93
Anderson-Darling Test Statistic	0.4
Anderson-Darling 5% Critical Value	0.801
Kolmogorov-Smirnov Test Statistic	0.13
Kolmogorov-Smirnov 5% Critical Value	0.177
Data appear Gamma Distributed at 5% Significance Level	
Data Distribution	
Data appear Gamma Distributed at 5% Significance Level	
Nonparametric Statistics	
95% CLT UCL	174.8
95% Jackknife UCL	176.6
95% Standard Bootstrap UCL	173.5
95% Bootstrap-t UCL	189.9
95% Hall's Bootstrap UCL	183.4
95% Percentile Bootstrap UCL	176.1
95% BCA Bootstrap UCL	180.9
95% Chebyshev(Mean, Sd) UCL	254.6
97.5% Chebyshev(Mean, Sd) UCL	310.1
99% Chebyshev(Mean, Sd) UCL	419.1
Assuming Gamma Distribution	
95% Approximate Gamma UCL	207.6
95% Adjusted Gamma UCL	214.4
Potential UCL to Use	
Use 95% Approximate Gamma UCL	
	207.6

Surface Samples Minus LB-1

General Statistics

Number of Valid Observations	25	Number of Distinct Observations	24
Number of Missing Values	29		

Raw Statistics

Log-transformed Statistics

Minimum	6.31	Minimum of Log Data	1.842
Maximum	562	Maximum of Log Data	6.332
Mean	136.5	Mean of log Data	4.087
Median	76	SD of log Data	1.494
SD	154.5		
Coefficient of Variation	1.132		
Skewness	1.333		

Relevant UCL Statistics

Normal Distribution Test

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.807	Shapiro Wilk Test Statistic	0.91
Shapiro Wilk Critical Value	0.918	Shapiro Wilk Critical Value	0.918

Data not Normal at 5% Significance Level

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

Assuming Lognormal Distribution

95% Student's-t UCL	189.3	95% H-UCL	480.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	435.3
95% Adjusted-CLT UCL	196.1	97.5% Chebyshev (MVUE) UCL	551.4
95% Modified-t UCL	190.7	99% Chebyshev (MVUE) UCL	779.4

Gamma Distribution Test

Data Distribution

k star (bias corrected)	0.665
Theta Star	205.3
nu star	33.24
Approximate Chi Square Value (.05)	21.06
Adjusted Level of Significance	0.0395
Adjusted Chi Square Value	20.4

Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

Anderson-Darling Test Statistic	0.576	95% CLT UCL	187.3
Anderson-Darling 5% Critical Value	0.786	95% Jackknife UCL	189.3
Kolmogorov-Smirnov Test Statistic	0.139	95% Standard Bootstrap UCL	186.9
Kolmogorov-Smirnov 5% Critical Value	0.182	95% Bootstrap-t UCL	202.8
		95% Hall's Bootstrap UCL	194.8
		95% Percentile Bootstrap UCL	187.8
		95% BCA Bootstrap UCL	195.8

Data appear Gamma Distributed at 5% Significance Level

95% Chebyshev(Mean, Sd) UCL	271.2
97.5% Chebyshev(Mean, Sd) UCL	329.5
99% Chebyshev(Mean, Sd) UCL	444

Assuming Gamma Distribution

95% Approximate Gamma UCL	215.4
95% Adjusted Gamma UCL	222.4

Potential UCL to Use

Use 95% Approximate Gamma UCL 215.4

General UCL Statistics for Full Data Sets			
User Selected Options			
From File	U:\MLawson\Projects\92451 CHP Oakland\Full Lead Sample Set.wst		
Full Precision	OFF		
Confidence Coefficient	95%		
Number of Bootstrap Operations	2000		
Subsurface Samples			
General Statistics			
Number of Valid Observations	26	Number of Distinct Observations	22
Number of Missing Values	22		
Raw Statistics		Log-transformed Statistics	
Minimum	4.5	Minimum of Log Data	1.504
Maximum	910	Maximum of Log Data	6.813
Mean	58.94	Mean of log Data	2.712
Median	10	SD of log Data	1.285
SD	178.9		
Coefficient of Variation	3.036		
Skewness	4.674		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.324	Shapiro Wilk Test Statistic	0.789
Shapiro Wilk Critical Value	0.92	Shapiro Wilk Critical Value	0.92
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	118.9	95% H-UCL	71.68
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	75.47
95% Adjusted-CLT UCL	151	97.5% Chebyshev (MVUE) UCL	94.03
95% Modified-t UCL	124.3	99% Chebyshev (MVUE) UCL	130.5
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.441	Data do not follow a Discernable Distribution (0.05)	
Theta Star	133.6		
nu star	22.95		
Approximate Chi Square Value (.05)	13.05	Nonparametric Statistics	
Adjusted Level of Significance	0.0398	95% CLT UCL	116.7
Adjusted Chi Square Value	12.56	95% Jackknife UCL	118.9
		95% Standard Bootstrap UCL	115.7
Anderson-Darling Test Statistic	4.007	95% Bootstrap-t UCL	498.5
Anderson-Darling 5% Critical Value	0.815	95% Hall's Bootstrap UCL	350.6
Kolmogorov-Smirnov Test Statistic	0.342	95% Percentile Bootstrap UCL	125.2
Kolmogorov-Smirnov 5% Critical Value	0.182	95% BCA Bootstrap UCL	166.7
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	211.9
		97.5% Chebyshev(Mean, Sd) UCL	278.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	408.1
95% Approximate Gamma UCL	103.6		
95% Adjusted Gamma UCL	107.7		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL 408.1	

Subsurface Minus Outlier

General Statistics

Number of Valid Observations	25	Number of Distinct Observations	21
Number of Missing Values	23		

Raw Statistics

Minimum	4.5
Maximum	220
Mean	24.9
Median	10
SD	44.39
Coefficient of Variation	1.783
Skewness	3.858

Log-transformed Statistics

Minimum of Log Data	1.504
Maximum of Log Data	5.394
Mean of log Data	2.548
SD of log Data	0.995

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.471
Shapiro Wilk Critical Value	0.918

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.829
Shapiro Wilk Critical Value	0.918

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	40.09
---------------------	-------

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	46.82
95% Modified-t UCL	41.23

Assuming Lognormal Distribution

95% H-UCL	34.75
-----------	-------

95% Chebyshev (MVUE) UCL	40.46
97.5% Chebyshev (MVUE) UCL	49.14
99% Chebyshev (MVUE) UCL	66.21

Gamma Distribution Test

k star (bias corrected)	0.8
Theta Star	31.13
nu star	40

Approximate Chi Square Value (.05)	26.51
Adjusted Level of Significance	0.0395
Adjusted Chi Square Value	25.76

Anderson-Darling Test Statistic	2.702
Anderson-Darling 5% Critical Value	0.778
Kolmogorov-Smirnov Test Statistic	0.308
Kolmogorov-Smirnov 5% Critical Value	0.18

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	37.57
95% Adjusted Gamma UCL	38.66

Potential UCL to Use

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	39.5
95% Jackknife UCL	40.09
95% Standard Bootstrap UCL	39
95% Bootstrap-t UCL	64.12
95% Hall's Bootstrap UCL	87.16
95% Percentile Bootstrap UCL	41.07
95% BCA Bootstrap UCL	48.81
95% Chebyshev(Mean, Sd) UCL	63.6
97.5% Chebyshev(Mean, Sd) UCL	80.35
99% Chebyshev(Mean, Sd) UCL	113.2

Use 95% Chebyshev (Mean, Sd) UCL 63.6

Subsurface Minus Outlier and LB-1

General Statistics

Number of Valid Observations	24	Number of Distinct Observations	20
Number of Missing Values	24		

Raw Statistics

Log-transformed Statistics

Minimum	4.5	Minimum of Log Data	1.504
Maximum	220	Maximum of Log Data	5.394
Mean	25.62	Mean of log Data	2.569
Median	10	SD of log Data	1.011
SD	45.2		
Coefficient of Variation	1.764		
Skewness	3.779		

Relevant UCL Statistics

Normal Distribution Test

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.479	Shapiro Wilk Test Statistic	0.836
Shapiro Wilk Critical Value	0.916	Shapiro Wilk Critical Value	0.916

Data not Normal at 5% Significance Level

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

Assuming Lognormal Distribution

95% Student's-t UCL	41.43	95% H-UCL	37.03
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	42.64
95% Adjusted-CLT UCL	48.4	97.5% Chebyshev (MVUE) UCL	51.97
95% Modified-t UCL	42.62	99% Chebyshev (MVUE) UCL	70.28

Gamma Distribution Test

Data Distribution

k star (bias corrected)	0.789
Theta Star	32.45
nu star	37.89
Approximate Chi Square Value (.05)	24.79
Adjusted Level of Significance	0.0392
Adjusted Chi Square Value	24.05

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

Anderson-Darling Test Statistic	2.492	95% CLT UCL	40.79
Anderson-Darling 5% Critical Value	0.777	95% Jackknife UCL	41.43
Kolmogorov-Smirnov Test Statistic	0.305	95% Standard Bootstrap UCL	40.29
Kolmogorov-Smirnov 5% Critical Value	0.184	95% Bootstrap-t UCL	67.48
		95% Hall's Bootstrap UCL	90.33
		95% Percentile Bootstrap UCL	42.08
		95% BCA Bootstrap UCL	51.75

Data not Gamma Distributed at 5% Significance Level

95% Chebyshev(Mean, Sd) UCL	65.83
97.5% Chebyshev(Mean, Sd) UCL	83.23
99% Chebyshev(Mean, Sd) UCL	117.4

Assuming Gamma Distribution

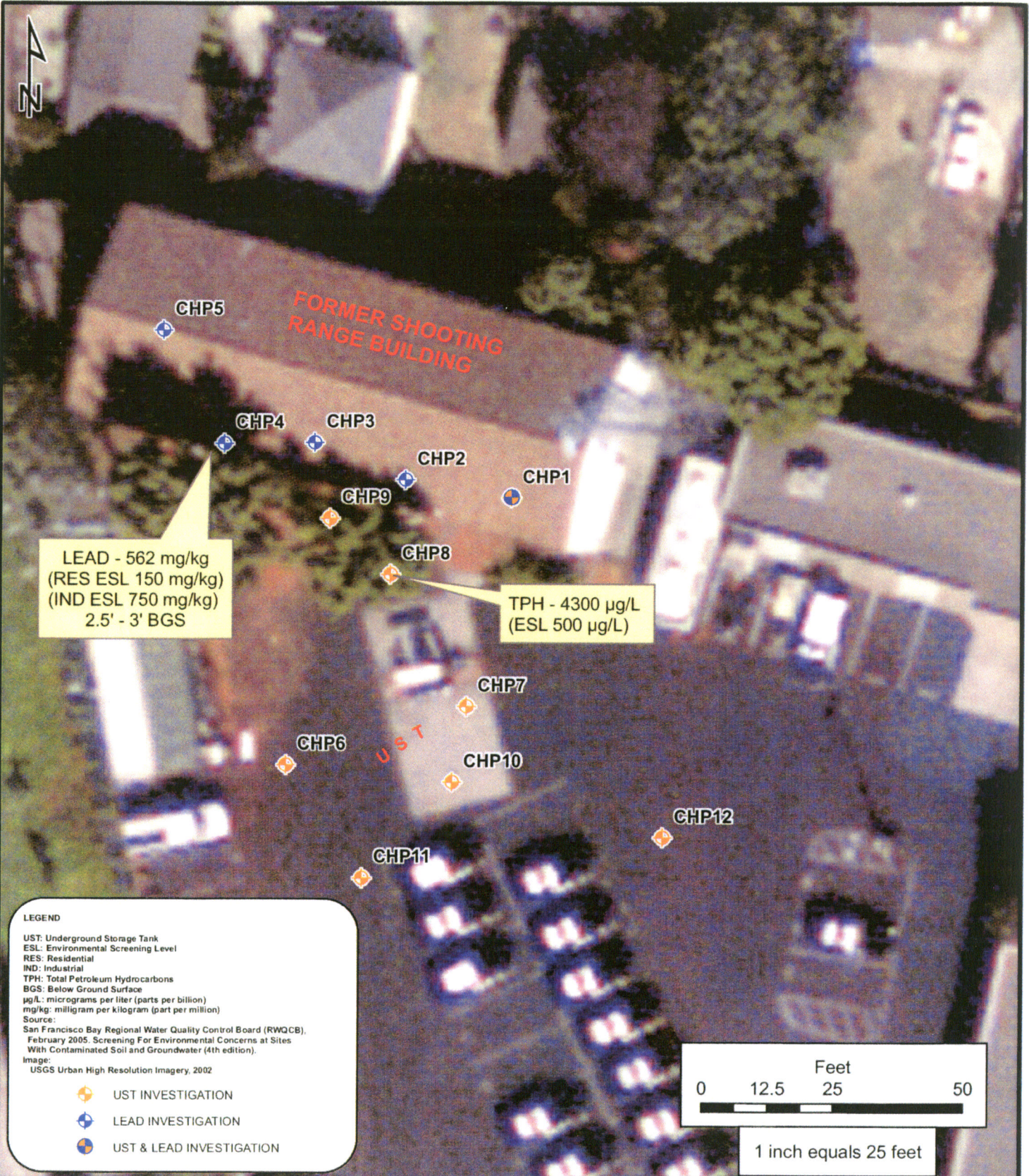
95% Approximate Gamma UCL	39.15
95% Adjusted Gamma UCL	40.36

Potential UCL to Use

Use 99% Chebyshev (Mean, Sd) UCL 117.4

APPENDIX F

PREVIOUS SITE INVESTIGATIONS



KLEINFELDER

1970 Broadway # 710
 Oakland, CA 94612
 (510) 628-9000

BORING LOCATION MAP

CHP OAKLAND
 DGS
 OAKLAND, CALIFORNIA

DRAFTED BY:

REVISED BY: IPM

CHECKED BY:

PLATE: **2**

DRAWN: APPROVED BY: PROJECT NO: FILE NAME:

Table 1: Analytical Results for Total Lead for Soil Samples
 CHP Oakland: 3601 Telegraph Avenue, Oakland, CA

Boring ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	Total Lead (mg/kg) ESL ^a =150 mg/kg	Soluble Lead (mg/L)\by DI WET
1	CHP1-1	0-0.5	1-25-07	7.23	---
	CHP1-2	2.5-3.0	1-25-07	125	0.116
	CHP1-3	3.5-4.0	1-25-07	8.16	---
	CHP1-4	5.0-5.5	1-25-07	5.43	---
	CHP1-15	15.0-15.5	1-25-07	5.96	---
2	CHP2-1	0-0.5	1-25-07	7.28	---
	CHP2-2	2.5-3.0	1-25-07	64.2	ND
	CHP2-3	3.5-4.0	1-25-07	5.80	---
	CHP2-4	5.0-5.5	1-25-07	5.08	---
3	CHP3-1	0-0.5	1-25-07	6.62	---
	CHP3-2	2.5-3.0	1-25-07	37.0	---
4	CHP4-1	0-0.5	1-25-07	8.47	---
	CHP4-2	2.5-3.0	1-25-07	562	ND
	CHP4-3	3.5-4.0	1-25-07	56.6	---
	CHP4-4	5.0-5.5	1-25-07	5.26	---
5	CHP5-1	0-0.5	1-25-07	11.5	---
	CHP5-2	2.5-3.0	1-25-07	6.31	---
6	CHP6-18	17.5-18.0	1-24-07	4.22	---
8	CHP8-18	18.0-18.5	1-24-07	3.93	---
9	CHP9-16	15.5-16.0	1-24-07	4.29	---
10	CHP10-16	15.5-16.0	1-24-07	3.99	---
11	CHP11-10	9.5-10.0	1-24-07	5.73	---
12	CHP12-13	12.0-13.0	1-24-07	5.95	---

Notes:

^a ESLs are for shallow soils (<3 m bgs) and residential land use where groundwater is not a current or potential source of drinking water

Analytical results for additional six soil samples collected at locations CHP1-2, and -4 are shaded

mg/kg: milligrams per kilogram (parts per million)

mg/L: milligrams per liter (parts per million)

bgs: below ground surface

CHP: California Highway Patrol

DI WET: Deionized (DI) water Waste Extraction Test (WET)

ESL: Environmental Screening Level

ID: Identification number

ND: None detected above laboratory reporting limits

---: not analyzed for the listed constituent

Highest concentrations of lead are listed in bold

Table 2: Analytical Results for Petroleum Hydrocarbon Constituents for Soil Samples
CHP Oakland: 3601 Telegraph Avenue, Oakland, CA

Analyte (mg/kg)	CHP1-15	CHP6-18	CHP8-18	CHP9-16	CHP10-16	CHP11-10	CHP12-13
Sample Depth	15-15.5 feet bgs	17.5-18 feet bgs	18-18.5 feet bgs	15.5-16 feet bgs	15.5-16 feet bgs	9.5-10 feet bgs	12-13 feet bgs
Date Sampled	1/25/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Di-Isopropyl ether	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
ETBE	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylene Dibromide (1,2-Dibromomethane)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Tertiary Butyl Ether	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
TAME	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tert-butyl Alcohol	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total Xylenes	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
TPH-GRO	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Notes:

bgs: below ground surface

mg/kg: milligram per kilogram (parts per million)

CHP: California Highway Patrol

ETBE: Ethyl t-butyl ether

ND: Not detected

TAME: Tert-amyl methyl ether

TPH-GRO: Total petroleum hydrocarbon-gasoline range organics

Table 3: Analytical Results for Dissolved Lead for Groundwater Samples

CHP Oakland: 3601 Telegraph Avenue, Oakland, CA

Boring ID	Sample ID	Date Sampled	Dissolved Lead (µg/L)
CHP-1	CHP-GW1	1-25-07	5.0 (ND)
CHP-2	CHP-GW2	1-25-07	5.0 (ND)
CHP-3	CHP-GW3	1-25-07	5.0 (ND)
CHP-4	CHP-GW4	1-25-07	5.0 (ND)
CHP-5	CHP-GW5	1-25-07	5.0 (ND)
CHP-6	CHP-GW6	1-24-07	5.0 (ND)
CHP-8	CHP-GW8	1-24-07	5.0 (ND)
CHP-9	CHP-GW9	1-24-07	5.0 (ND)
CHP-10	CHP-GW10	1-24-07	5.0 (ND)
CHP-11	CHP-GW11	1-24-07	5.0 (ND)
CHP-12	CHP-GW12	1-24-07	5.0 (ND)

Notes:

µg/L: micrograms per liter (parts per billion)

CHP: California Highway Patrol

ID: Identification number

GW: Groundwater

ND: None detected

Table 4: Analytical Results for Petroleum Hydrocarbon Constituents for Groundwater Samples
CHP Oakland: 3601 Telegraph Avenue, Oakland, CA

Analyte (µg/L)	ESL ^a (µg/L)	Sample ID and Date Sampled						
		CHP-GW1	CHP-GW6	CHP-GW8	CHP-GW9	CHP-GW10	CHP-GW11	CHP-GW12
		1/24/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007	1/24/2007
1,2-Dichloroethane		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Benzene	46	ND(0.50)	ND(0.50)	2.5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Di-Isopropyl ether		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
ETBE		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Ethylbenzene	290	ND(0.50)	ND(0.50)	2.4	ND(0.50)	2.0	ND(0.50)	ND(0.50)
Ethylene Dibromide (1,2-Dibromomethane)		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Methyl Tertiary Butyl Ether TAME	1,800	ND(0.50)	15	0.97	1.0	38	7.1	0.56
		ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Tert-butyl Alcohol		ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Toluene	130	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	2.2	ND(0.50)	ND(0.50)
Total Xylenes	100	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	7.4	ND(0.50)	ND(0.50)
TPH-GRO (ug/L)	500	ND(50)	ND(50)	4300	ND(50)	ND(50)	130	ND(50)

Notes:

a. ESLs assuming a potential discharge of groundwater into marine or estuary water system, where contaminants are present in deep soils (>3 m bgs), there is residential land use, and groundwater is not a current or potential source of drinking water.
 µg/L: micrograms per liter (parts per billion)

BTEX: Benzene, toluene, ethylbenzene, and total xylenes.

CHP: California Highway Patrol

ETBE: Ethyl t-butyl ether

ID: Identification

GW: Groundwater

ND: Not detected

TAME: Tert-amyl methyl ether

TPH-GRO: Total petroleum hydrocarbon-gasoline range organics

CSC BUILDING SKETCH & PLOTTING WORKSHEET

Sketch By: <u>MIKE EBERLE</u>	Date of Sketch: <u>20 JUNE 2006</u>
Building(s) show on this sketch: <u>OVER HEAD REFLECTIVE VIEW OF CMP SHOOTING RANGE.</u>	
Comments	<u>SAMPLES TAKEN 14 JUNE 2006</u>
<u>CALIFORNIA CUT OFF 5 PPM OR LOWER</u>	

APPENDIX G

GEOTRACKER

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

CHP - OAKLAND - T0619763665
 3601 TELEGRAPH
 OAKLAND, CA 946092426

* DENOTES THAT A SUBMITTAL HAS BEEN AUTO-RECEIVED

EDF SUBMITTALS						
CONF NUM	TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE	STATUS	
5025404572	JANUARY 2007 SAMPLING RESULTS	Q1 2007	STEVEN C. DALTON	5/14/2008	RECEIVED ON 6/12/2008	QC REPORT
2696122229	JANUARY 2007 SAMPLING RESULTS	Q1 2007	STEVEN C. DALTON	5/14/2008	RECEIVED ON 6/12/2008	QC REPORT
3793992946	LABS. SEPTEMBER 2008	Q3 2008	STEVEN C. DALTON	11/12/2008	PENDING	DELETE SUBMITTAL QC REPORT
7406597316	LABS. SEPTEMBER 2008	Q3 2008	STEVEN C. DALTON	11/12/2008	PENDING	DELETE SUBMITTAL QC REPORT
1248577296	LABS. SEPTEMBER 2008	Q3 2008	STEVEN C. DALTON	11/12/2008	PENDING	DELETE SUBMITTAL QC REPORT
2936802744	LABS. SEPTEMBER 2008	Q3 2008	STEVEN C. DALTON	11/12/2008	PENDING	DELETE SUBMITTAL QC REPORT
7655979990	LABS. SEPTEMBER 2008	Q3 2008	STEVEN C. DALTON	11/12/2008	PENDING	DELETE SUBMITTAL QC REPORT
GEO_XY SUBMITTALS						
NO GEO_XY SUBMITTALS FOR THIS FACILITY.						
GEO_Z SUBMITTALS						
NO GEO_Z SUBMITTALS FOR THIS FACILITY.						
GEO_WELL SUBMITTALS						
NO GEO_WELL SUBMITTALS FOR THIS FACILITY.						
GEO_MAP SUBMITTALS						
CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS		
9331435263	GEO_MAP	STEVEN C. DALTON	5/13/2008	RECEIVED ON 6/12/2008		
4643112003	GEO_MAP	STEVEN C. DALTON	5/13/2008	RECEIVED ON 6/12/2008		
4537112176	GEO_MAP	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
4775609059	GEO_MAP	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
GEO_BORE SUBMITTALS						
CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS		
2730854060	BORING LOG GB-16	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
7686261970	BORING LOG GB-17	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
2770262777	BORING LOG GB-18	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
7735500945	BORING LOG GB-19	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
9579974114	BORING LOG GB-20	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
1288036525	BORING LOG GB-21	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
5722530543	BORING LOG GB-22	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
9326582968	BORING LOG GB-23	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
8852156698	BORING LOG LB-1	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
9531987939	BORING LOG LB-1 THRU GB-23	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
3295076668	BORING LOG LB-2	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
4874847888	BORING LOG LB-3	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
7821337840	BORING LOG LB-4	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
6672790486	BORING LOG LB-5	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
3109344969	BORING LOG LB-6	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
9190933704	BORING LOG LB-7	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
8172337412	BORING LOG LB-8	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
7091489284	BORING LOG LB-9	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
3993444752	BORING LOG LB-9	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
6961089909	BORING LOG LB-10	STEVEN C. DALTON	11/12/2008	PENDING		DELETE SUBMITTAL
GEO_REPORT SUBMITTALS						
CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS		
9247252523	CHP 2007, PART 1	STEVEN C. DALTON	5/8/2008	RECEIVED ON 6/12/2008		
8379292360	CHP 2007, PART 2	STEVEN C. DALTON	5/8/2008	RECEIVED ON 6/12/2008		
NAME CHANGE SUBMITTALS						
NO NAME CHANGE SUBMITTALS FOR THIS FACILITY.						
DUPLICATE FACILITY SUBMITTALS						
NO DUPLICATE FACILITY SUBMITTALS FOR THIS FACILITY.						

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