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Alameda County
Environmental Health

December 15, 2009

Alameda County
Environmental Health Services
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Attention: Mark Detterman, P.G., C.E.G, Hazardous Materials Specialist

Subject: Former Ambassador Laundry Third Quarter 2009 Groundwater Monitoring Report City of Emeryville, Alameda County, California, Fuel Leak Case No. RO0002973 – EPA Grant BF-96985401

Dear Mr. Detterman:

This refers to the Former Ambassador Laundry Third Quarter 2009 Groundwater Monitoring Report, City of Emeryville, Alameda County, California. The enclosed report was prepared in response to your request for implementing the Post Remediation Work Plan, Former Ambassador Laundry (Work Plan), Emeryville, California, Fuel Leak Case No. RO0002973. The Work Plan was submitted to the Alameda County Environmental Health Services (ACEHS) on September 12, 2008 and approved by the ACEHS on January 9, 2009.

This is the last report of a series of investigations requested by the ACEHS. The analytical results of these investigations indicate the conditions at the Former Ambassador Laundry site do not pose a threat to human health or the environment. The City of Emeryville requests the ACEHS to close this Fuel Leak Case No. RO0002973 and provide a no further action letter for the site.

The information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge. If you have any questions or comments on the work plan please contact Álvaro Domínguez at (510) 628-9000 x 202, or my self at (510) 596-4356.

Sincerely,

Markus Niebanck
Project Manager



**FORMER AMBASSADOR LAUNDRY
THIRD QUARTER 2009
GROUNDWATER MONITORING REPORT
CITY OF EMERYVILLE
ALAMEDA COUNTY, CALIFORNIA**

December 15, 2009

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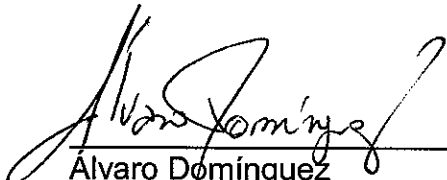
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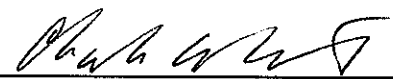
**FORMER AMBASSADOR LAUNDRY
THIRD QUARTER 2009
GROUNDWATER MONITORING REPORT
CITY OF EMERYVILLE,
ALAMEDA COUNTY, CALIFORNIA**

Kleinfelder Job No. 73943/PWGWM
Fuel Leak Case No. RO0002973

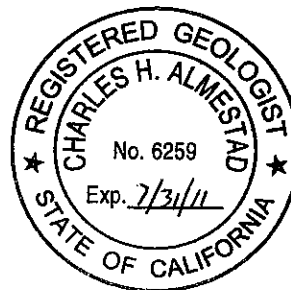
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December 15, 2009

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1.0 INTRODUCTION

This report summarizes the Third Quarter 2009 groundwater monitoring event at the Former Ambassador Laundry site, located at 1160-1168 36th Street and 3601 and 3623 Adeline Street, in Emeryville, Alameda County, California (the Site). Plate 1 shows a Site Vicinity Map. On behalf of the City of Emeryville (the City), Kleinfelder performed a series of investigations in response to a letter by the Alameda County Environmental Health (ACEH) to the City, dated July 7, 2007, requesting additional subsurface data to support closing the fuel case for the site (RO00002973). This report concludes the work requested by the ACEH. The analytical results documented during these investigations indicate the subsurface conditions at the site do not pose a threat to human health or the environment. Closure of ACEH Fuel Case No. RO00002973 is recommended so the City can proceed with the proposed development of the site.

On October 26, 2009, Kleinfelder performed the following field tasks:

- Measuring depth to groundwater and groundwater field parameters, including temperature, pH, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP);
- Collecting groundwater samples for chemical analysis from the six existing monitoring wells at the Site;
- Having a State certified laboratory analyze the groundwater samples for Total Petroleum Hydrocarbons (TPH) as diesel (-d), gasoline (-g), motor oil (-mo); benzene, toluene, ethylbenzene, xylenes (BTEX); fuel oxygenates, including ethylene dibromide (EDB), ethylene dichloride (EDC) and methyl tert butyl ether (MTBE); and for biodegradation indicators, including, sulfate, nitrate, orthophosphate, ammonia, methane and ferrous iron concentrations;
- Containing the purge water generated during groundwater sampling for appropriate disposal in the future.

2.0 BACKGROUND INFORMATION

This section presents a brief description of the site and a summary of previous environmental investigations performed at the site.

2.1 SITE DESCRIPTION

The U-shaped Site occupies approximately 34,136 square feet (0.78-acres) in a mixed, residential/light industrial land-use area of the City of Emeryville. On the north, the Site is bordered by residences, on the west by Peralta Street, on the south by 36th Street, and on the east by Adeline Street and two residences. Currently, the site is a vacant lot with a billboard facing the west-bound traffic of Interstate 580.

Field observations of the Site's subsurface soil indicate its stratigraphy is composed mostly of clay and silt mixture layers, with occasional, relatively thin, layers of sands and/or gravel containing materials. At the site, groundwater is first encountered at depths of approximately 18 to 24 feet bgs, and static groundwater has been measured at depths ranging from 9.07 feet bgs to 11.40 feet bgs.

2.2 GENERAL GEOLOGIC AND HYDROGEOLOGIC INFORMATION

The Site is located within the East Bay Plain Physiographic Region (EBPPR) of the San Francisco Bay Area. The East Bay Plain Physiographic Region is characterized by depositional fans of sediments originating from the Diablo Range that slope towards the southwest. The Hayward Fault is located approximately 2.6 miles northeast of the Site. Shallow sediments in the vicinity of the Site have been mapped as older and younger alluvium. These sediments are describes as typically consisting of unconsolidated to poorly consolidated clay, silt, sand and gravel, with generally low groundwater yield rates. Static groundwater in monitoring wells generally occurs at depths ranging from about six to ten feet below ground surface (bgs) and the general groundwater flow in the region is towards the west / southwest.

2.3 OPERATIONAL HISTORY

In 1910, an industrial laundry facility, the New Method Laundry, was established at the Site. According to the file review summarized by in the Phase I Environmental Site Assessment (ESA) [Clayton, 2003a], some type of industrial laundry facility operated at the Site between 1910 and the 1980s. In the mid 1980s the land use at the Site changed and became a multi-tenant, mixed residential/commercial land-use area. Businesses operating at the Site included a spa assembly company, a commercial sign company, art studios, a bronze art foundry, a metal contractor, a vehicle maintenance company, and other commercial uses. Available records indicate that two USTs, an 8,000-gallon tank for gasoline (UST-G) and a 2,500-gallon tank for heating oil (UST-HO), were removed from the Site in 1994 and 1995, respectively (Plate 2). Both UST removal cases were closed by the ACEH.

2.4 PREVIOUS INVESTIGATIONS

Pre-2003 environmental investigations are summarized in Clayton's Phase 1 ESA (Clayton, 2003a); including reports documenting the removal of the two USTs, soil and groundwater investigations associated with the removal of the USTs, a Phase I ESA, and the cleaning of a sump (Sump-1). Other environmental actions at the site include a soil and groundwater sampling investigation (Clayton, 2003b), a sump (Sump-2) closure (Clayton, 2005), and a subsurface investigation and UST removal report (Kleinfelder, March 11, 2008).

On July 7, 2008, after reviewing Kleinfelder's 2008 Report, the ACEH requested a work plan to delineate the horizontal and vertical extent of contaminated soil in the former UST area, and to monitor groundwater conditions at the site. On September 12, 2008, Kleinfelder submitted the Post Remediation Evaluation Work Plan (Work Plan), which was approved by the ACEH on January 9, 2009.

On February 16 and 17, and on March 30 and 31, 2009 Kleinfelder implemented the investigation activities described in the Work Plan. Field investigation activities included conducting cone penetration tests (CPT), collecting subsurface soil samples using direct push technology (DPT), and installing six groundwater monitoring-wells within the first encountered groundwater bearing zone (GWBZ). In addition, the investigation included

a preferential pathway survey within a 2,000-foot radius of the Site. The survey consisted of obtaining and reviewing well records to identify potential groundwater plume receptors (monitoring, municipal and private water supply wells) and assessing the location of sewer and storm-drain lines that could serve as potential preferential pathways for contaminants in the subsurface. The results of the investigation were summarized in the Post Remediation Subsurface Investigation and First Groundwater Monitoring Event Report, dated June 17, 2009.

2.5 GROUNDWATER BENEFICIAL USE DESIGNATION

According to the San Francisco Regional Water Quality Control Board's (SFRWQCB) 1999 East Bay Plain Groundwater Basin Beneficial Use Evaluation Report (RWQCB, 1999), the site is located in area classified as Zone B, Emeryville Brownfields Groundwater Management Zone. While the groundwater in Zone B may meet the broad "sources of drinking water" criteria, groundwater in Zone B is unlikely to be used as a drinking water resource because limiting factors related to yield and water quality restrict practical uses of the groundwater. Groundwater in the Emeryville Brownfields Groundwater Management Zone is not currently used for any municipal, domestic, industrial, or agricultural, and no extractive beneficial uses are planned in the future (RWQCB, 1999). The East Bay Plain Groundwater Basin Beneficial Use Evaluation Report further suggests that the remedial strategies implemented in this area should reflect the low probability that groundwater in this zone will be used as a source of drinking water in the foreseeable future. Achievement of drinking water objectives within a reasonable time period is an appropriate long term goal and passive remediation to restore MUN beneficial uses as a long-term goal is recommended.

2.6 ENVIRONMENTAL SCREENING LEVELS

The SFRWQCB developed Environmental Screening Levels (ESLs) for use as initial indicators of potential impacts to human health or the environment. To assess the potential impacts of the chemicals of concern reported in groundwater, Kleinfelder compared the reported concentrations of each compound to its respective ESL, as available and presented in the SFRWQCB's guidance document *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (Interim Final – November 2007, revised May 2008). Kleinfelder referenced the ESLs for

groundwater where groundwater is not a current or potential source of drinking water based on the finding that the shallow groundwater at the site is not suitable as a source of drinking water per SFRWQCB (see Section 2.5).

2.7 PREVIOUS QUARTERLY GROUNDWATER MONITORING

Samples for the first and second quarter 2009 groundwater monitoring events were collected on April 17 and July 15-17 2009, respectively. During the monitoring events, groundwater field parameters, including depth to groundwater, pH, conductivity, dissolved oxygen (DO), and oxidation/reduction potential (ORP) were measured in each of the six monitoring wells. Groundwater samples for chemical analyses were collected from each of the six monitoring wells. The groundwater samples were delivered to a State of California certified laboratory where they were analyzed for TPH-d, TPH-g, TPH-mo, BTEX, fuel oxygenates, specific conductivity, total dissolved solids, sulfate, nitrate, orthophosphate, ammonia, methane and ferrous iron.

2.7.1 BTEX and Fuel Oxygenates

The analytical results from the second quarter 2009 groundwater monitoring event indicated that BTEX concentrations reported in MW-2 during the first quarter 2009 groundwater monitoring event had declined to levels below the laboratory's reporting limit of 0.5 micrograms per Liter ($\mu\text{g/L}$). BTEX concentrations in the samples from the other five wells remained below the laboratory's reporting limit.

Ethylene dibromide (EDB) was reported above the laboratory's reporting limit in one groundwater sample collected from MW-6. The 0.64 $\mu\text{g/L}$ EDB concentration is slightly above the laboratory's reporting limit of 0.5- $\mu\text{g/L}$. Diisopropyl ether (DIPE) was reported in the samples from the six wells at concentrations ranging from 4.2- $\mu\text{g/L}$ to 27- $\mu\text{g/L}$, which are not very different than those reported during the first quarter 2009 groundwater monitoring event. Methyl tert butyl ether (MTBE) was reported above the laboratory's reporting limits of 0.5- $\mu\text{g/L}$ in the groundwater samples from five of the six monitoring wells, at concentrations ranging from 2.1- $\mu\text{g/L}$ to 3.6- $\mu\text{g/L}$.

The BTEX and fuel oxygenates concentrations reported above the laboratory's reporting were below their respective ESLs, except for EDB and DIPE that do not have established ESLs.

2.7.2 Total Petroleum Hydrocarbons

TPH-g concentrations above the laboratory's reporting limits were reported in the samples collected from MW-4 and MW-6, at concentrations ranging from 69- μ g/L and 94- μ g/L, respectively, and TPH-d was reported only in the sample collected from MW-6 at 58- μ g/L. The TPH concentrations reported above the laboratory's reporting limits in the second quarter 2009 were below their respective ESLs of 210- μ g/L.

2.7.3 Biodegradation Indicators

Field measurements of DO and ORP indicated DO concentrations ranging from 0.09 milligrams per Liter (mg/L) in MW-3 to 0.48 mg/L in MW-1; and ORP ranging from 87.2 mEV in groundwater from MW-5 to 159.2mEV in groundwater from MW-6.

Nitrogen and phosphate are essential nutrients for living organisms, and their concentrations can be used to assess microbial activity. To microorganisms, nitrogen is commonly available in the form of nitrate or ammonia, and phosphate in the form of orthophosphate. Nitrate was reported at concentrations ranging from 9.4 mg/L in MW-6 to 59 mg/L in MW-1. Ammonia in groundwater samples was reported below the laboratory's reporting limit of 0.2 mg/L and phosphate was reported above the laboratory's reporting limit of 0.1 mg/L in only the sample from MW-1 at 0.41 mg/L. Sulfate, another nutrient, was reported at concentrations ranging from 69 mg/L in MW-1 to 100 mg/L in MW-6. Methane, a byproduct of anaerobic microbial activity, was reported at concentrations ranging from less than 0.4 mg/L in the sample from MW-1 to 55 mg/L in the sample from MW-6.

3.0 FIELD ACTIVITIES

This section summarizes the monitoring activities performed during in the third quarter 2009 groundwater monitoring event.

3.1 GROUNDWATER MONITORING ACTIVITIES

The third quarter 2009 groundwater-monitoring event took place on October 26, 2009. Prior to monitoring activities, field instrumentation was checked and calibrated.

3.1.1 Water Level Measurements

Prior to collecting groundwater sample, the depth to water in each well was measured to the nearest 0.01-foot. Depth to groundwater was measured using a clean, calibrated electronic water-level indicator, and measurements were used to calculate the volume of water present in the well for purging purposes and to assess groundwater flow patterns. Water level measurements and groundwater flow patterns are discussed in Section 4.1 of this report.

3.1.2 Groundwater Sample Collection

Upon completing water-level measurements, and prior to collecting groundwater samples, Kleinfelder purged approximately three casing volumes of groundwater from each monitoring well using a peristaltic pump. During purging, changes in DO concentration, conductivity, pH, temperature, and ORP, were measured. Groundwater samples for chemical analyses were collected after groundwater field parameters became stable (three measurements within about 10% of each other), or after three well casing volumes had been removed.

After purging, groundwater samples from each monitoring well were collected and contained in laboratory-supplied containers. The containers were labeled and subsequently placed into a pre-chilled cooler with ice, pending delivery to a California - certified laboratory for chemical analysis. Samples were delivered to the laboratory following chain of custody protocol.

3.1.3 Analytical Laboratory Parameters

ESC Lab Sciences, a California -certified analytical laboratory, performed the chemical analysis for the third quarter 2009 groundwater monitoring event. Samples were analyzed for the following parameters:

- TPH-g using EPA Method 8015D
- BTEX and fuel oxygenates, including EDB and EDC, using EPA Method 8260B
- TPH-d and TPH-mo using EPA Method 8015, with silica gel clean-up using EPA 3510/3630
- Nitrate and sulfate using EPA Method 9056
- Ammonia using EPA Method 350.1
- Total phosphorus using EPA Method 365.1
- Total dissolved solids using EPA Method 2540C
- Specific conductivity using Standard Method 9050A
- Ferrous iron using Standard Method 3500Fe-B, and
- Methane using RSK 175.

3.2 DECONTAMINATION PROCEDURES

Prior to performing groundwater level measurements, and between measurements at each well location, the electronic water level indicator probe and cable was cleaned with an Alconox™ water solution and subsequently rinsed with tap water, followed by distilled water.

3.3 INVESTIGATION-DERIVED WASTE (IDW) HANDLING PROCEDURES

Investigation-derived wastes (IDW), consisting of well purge-water and decontamination rinsate fluids were contained in one United States Department of Transportation (DOT)-approved 55-gallon drum. The drum was left onsite with an appropriate label identifying the waste source location, physical contents, date, and generator's name, pending disposal as non-hazardous waste at an appropriate facility.

4.0 GROUNDWATER MONITORING RESULTS

The third quarter 2009 groundwater monitoring event took place on October 26, 2009, as described in Section 3 of this report. Depth to groundwater was measured and groundwater samples for chemical analysis collected from each of the five monitoring wells at the site. This section summarizes the water-level measurements and groundwater chemical analysis results. Plate 3 shows the location of the monitoring wells.

4.1 GROUNDWATER LEVELS

The depth to groundwater on each well was measured from the top of casings. On October 26, 2009, depth to groundwater in the six wells ranged from 9.07 to 15.81 feet. Groundwater surface elevations ranged from 15.32 (MW-2) feet to 21.84 (MW-6) feet (NAVD, 1988). Relative to the groundwater surface elevations measured on July 17, 2009, groundwater levels were higher in monitoring wells MW-3 through MW-6, and lower in MW-1 and MW-2. Table 1 presents a summary of groundwater level data.

In comparison to previous water level data, the water level measurements from wells MW-1 and MW-2 on October 26, 2009 appear anomalous. Consequently, depth to water in onsite monitoring wells was re-measured on November 26, 2009. Groundwater surface elevations were estimated with the November 26, 2009 depths to groundwater measurements, and are presented in Plate 2. The groundwater flow pattern estimated from the November 26, 2009 measurements is similar to the flow patterns estimated in previous monitoring events.

4.2 GROUNDWATER SAMPLE RESULTS

On October 26, 2009, groundwater field parameters were measured and groundwater samples for chemical analyses were collected from the six monitoring wells, MW-1 to MW-6. Groundwater purge measurements, groundwater analytical results, and quality assurance / quality control data are discussed in the following sections.

4.2.1 Purge Characteristic Data

Prior to groundwater sample collection, the wells were purged to allow the inflow of water from the water bearing zones. DO, ORP, temperature, pH and specific conductivity were measured during purging. Table 1 summarizes groundwater elevation and final purge characteristic data, including pH, temperature and specific conductivity for each well. Specific conductivity, DO, and ORP results are included in Table 3.

4.2.2 BTEX and Fuel Oxygenates

The analytical results of the groundwater samples collected during the third quarter 2009 groundwater monitoring event indicate that BTEX was not detected at concentrations at or above the laboratory's reporting limit of 0.5- $\mu\text{g/L}$ for BTE and 1.0- $\mu\text{g/L}$ for X in any of the six wells (Table 2).

Methyl tert-butyl ether (MTBE) levels above the laboratory's reporting limit were reported at concentrations ranging from 1.9- $\mu\text{g/L}$ to 3.4- $\mu\text{g/L}$ in the groundwater samples from MW-2, MW-3, MW-4, MW-5 and MW-6 (Table 2). MTBE was not reported in the sample from MW-1. The MTBE concentrations reported in the third quarter 2009 groundwater monitoring event are about the same as those reported in the second quarter 2009 groundwater monitoring event, and are below the ESL for MTBE of 5.0 $\mu\text{g/L}$.

In the groundwater samples from the six monitoring wells, no EDB concentrations above the 0.5- $\mu\text{g/L}$ reporting limit were reported, and DIPE was reported at concentrations ranging from 4.1- $\mu\text{g/L}$ to 27- $\mu\text{g/L}$. These concentrations are about the same as those reported in the second quarter 2009 groundwater monitoring event. ESLs for either DIPE or EDB have not yet been established.

4.2.3 Total Petroleum Hydrocarbons

TPH-g concentrations above the laboratory's reporting limit were reported in MW-2 through MW-6 at concentrations ranging from 44- $\mu\text{g/L}$ to 83- $\mu\text{g/L}$; TPH-g was not reported in MW-1 at or above the laboratory's reporting limit of 40- $\mu\text{g/L}$ (Table 2).

TPH-d was reported at 36- $\mu\text{g/L}$ in the groundwater sample from MW-6. TPH-d was not reported at or above the laboratory's reporting limit in the samples from the other wells (Table 2).

The TPH-g and TPH-d concentrations reported in the samples collected for the third quarter 2009 groundwater monitoring event are below the ESLs for TPH-g and TPH-d of 210- $\mu\text{g/L}$, and lower than those reported in the second quarter 2009 groundwater monitoring event.

4.2.4 Biodegradation Indicators

Indicators of biodegradation recorded during the third quarter 2009 groundwater monitoring event are summarized in Table 3. During purging, final DO concentrations ranged from 0.1 mg/L (MW-3) to 9.95 mg/L (MW-1), however, such a high measurement of DO is not considered representative of the subsurface conditions at the site and is assumed to be the result of equipment malfunction. ORP readings ranged from -293 mEV (MW-3) to 158.3 mEV (MW-1). The analytical results indicate ammonia concentrations above the laboratory's reporting limit were present in the groundwater samples from two wells, MW-1 (0.044 mg/L) and 0.089 mg/L (MW-6). Nitrate concentrations ranged from 1.9 mg/L (MW-6) to 14 mg/L (MW-1). Phosphate concentrations above were reported at concentrations ranging from 0.06 mg/L (MW-2) to 0.13 mg/L (MW-4). Methane concentrations above the laboratory's reporting limit of 10- $\mu\text{g/L}$ were reported in the samples from two wells, at 47- $\mu\text{g/L}$ and 53- $\mu\text{g/L}$ in MW-6 and MW-4, respectively. Ferrous iron concentrations above the laboratory's 0.05 mg/L reporting limit were reported at concentrations ranging from 28- $\mu\text{g/L}$ (MW-1) to 480- $\mu\text{g/L}$ (MW-6) in the samples from four out of the six monitoring wells (Table 3). Ferrous iron was not reported in the samples collected from MW-4 and MW-5.

The groundwater analyses for biodegradation indicators suggest that petroleum hydrocarbons are biodegrading and natural attenuation is ongoing. DO concentration readings in the third quarter 2009 monitoring event suggest that DO is being readily consumed in the vicinity of MW-2 and MW-3, and is present at concentrations that favor biological degradation in MW-4, MW-5 and MW-6. The ORP readings from MW-2, MW-

3 and MW-4, indicating a reducing environment, and suggest the natural attenuation of the chemicals of concern in the area of concern.

4.2.5 Quality Assurance / Quality Control

For the current set of samples the laboratory quality assurance / quality control parameters did not deviate from accepted norms. Samples were preserved and transported to the laboratory under chain-of-custody control protocols. All samples were analyzed within holding times, method blanks were not found to contain chemicals of concern, and surrogate recoveries were within accepted ranges.

5.0 SUMMARY OF RESULTS

This section presents a summary of the monitoring results from the groundwater monitoring event performed in October 2009.

5.1 HYDRAULIC CONDITIONS

Relative to the groundwater surface elevations measured on July 17, 2009, groundwater levels were higher in monitoring wells MW-3 through MW-6, and lower in MW-1 and MW-2. Table 1 presents a summary of groundwater level data. The November 26, 2009 groundwater surface elevation estimates suggest that groundwater flows towards the south-southwest, in a similar direction observed in previous groundwater monitoring events at the site.

5.2 WATER QUALITY

In general, the chemicals of concern reported in the third quarter 2009 groundwater monitoring event were detected at lower concentrations than during the first and second quarters of 2009 groundwater monitoring events. The concentrations of the chemicals of concern at the site are below their respective ESLs.

5.2.1 Volatile Organic Compounds and Petroleum Hydrocarbons

The analytical results for BTEX from the six wells were below the laboratory's reporting limit of 0.5- $\mu\text{g/L}$. MTBE was reported at concentrations ranging from less than 0.6- $\mu\text{g/L}$ to 3.4- $\mu\text{g/L}$, below the ESL for MTBE of 1,800- $\mu\text{g/L}$. Similarly, TPH-g was reported at concentrations ranging from less than 40- $\mu\text{g/L}$ to 83- $\mu\text{g/L}$, below the ESL for TPH-g of 210- $\mu\text{g/L}$. TPH-d was only reported in the sample collected from MW-6 at 36 $\mu\text{g/L}$, which is below the TPH-d ESL of 210 $\mu\text{g/L}$ (Table 2).

5.2.2 Biodegradation Indicators

Indicators of biodegradation recorded during the third quarter 2009 groundwater monitoring event were similar to previous results, except for ORP, nitrate, and ferrous iron. ORP measurements indicated that groundwater shifted towards a more reducing

environment, particularly in the groundwater within the area of interest (monitoring wells MW-2, MW-3 and MW-4), where negative milli-volt values were observed. Nitrate concentrations were lower in all the groundwater samples, suggesting nitrate is being used as electron donor in the subsurface environment. Ferrous iron concentrations were reported at concentrations ranging from 28- $\mu\text{g/L}$ (MW-1) to 480- $\mu\text{g/L}$ (MW-6) in four of the six samples, and were not reported in the samples collected from MW-4 and MW-5.

6.0 CONCLUSIONS AND RECOMENDATION

The third quarter 2009 groundwater monitoring event concludes the planned monitoring of the subsurface impacts associated with the former UST removed from the site in 2008.

6.1 CONCLUSIONS

Combined, the analytical results obtained during the three groundwater monitoring events suggest that the source of petroleum hydrocarbons impacting the subsurface in the area of concern have been removed and that the impacts to groundwater is small and does not warrant further actions. The extent of petroleum hydrocarbon impacted soil remaining at the site was delineated during the installation of the six monitoring wells at the site. The residual petroleum hydrocarbon concentrations do not appear to be impacting groundwater significantly. During the three 2009 groundwater monitoring events at the site, TPH-g, reported at 310- $\mu\text{g/L}$ in the MW-2 sample collected during the first groundwater monitoring event, was the only chemical of concern reported above its ESL (210- $\mu\text{g/L}$). In the subsequent groundwater monitoring events, the groundwater samples from the six wells had TPH-g concentrations below 100- $\mu\text{g/L}$. The other chemical of concerns, including BTEX, EDB, MTBE, DIPE, and TPH-d have been reported at concentrations below the laboratory's reporting limit and/or below their respective ESLs.

Given that:

- a) the contamination source has been removed;
- b) the concentration of the chemicals of potential concern has continuously declined;
- c) the biodegradation indicators data suggests that the chemicals of concern are naturally attenuating;
- d) BTEX and fuel oxygenates have not been reported at concentrations above the laboratory's reporting limits; and

- e) TPH-g and TPH-d concentrations reported above the laboratory's reporting limits are below their respective ESL.

We believe that under current conditions the site does not pose a threat to human health or the environment.

6.2 RECOMMENDATIONS

Based on the analytical results from the three groundwater monitoring events and previous investigations, the residual subsurface impacts at the site do not appear to preclude the proposed site development.

Kleinfelder understands that a soil management plan (SMP) will be prepared and implemented during site development, particularly with the excavation associated with the construction of the underground parking structure.

Kleinfelder recommends closure of ACEH Fuel Case No. RO00002973 to allow the City proceed with the proposed development of the currently vacant site.

7.0 LIMITATIONS

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Alameda County at the time this investigation was performed. All information gathered by Kleinfelder is considered confidential and will be released only upon written authorization by the City of Emeryville or as required by law.

Kleinfelder offers various levels of investigation 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 involve 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 City of Emeryville has reviewed the document and determined that it does not need or want a greater level of service than that 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 reports 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 City of Emeryville 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 City of Emeryville 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.

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 City of Emeryville with a source of professional advice, opinions and recommendations. Our professional opinions and recommendations are/will be 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 City of Emeryville. Consequently, no warranty or guarantee, expressed or implied, is intended or made.

8.0 REFERENCES

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TABLES

Table 1
Groundwater Elevation and Final Purge Characteristics in Groundwater
Former Ambassador Laundry
Emeryville, California

| Well ID | Top of Casing Elevation (NAD 83) | Date Sampled | Depth to Groundwater (feet) | Groundwater Elevation (feet) | Gallons Purged | Final pH | Final Specific Conductivity (µmhos/cm) | Final Temperature (degrees C) |
|---------|----------------------------------|--------------|-----------------------------|------------------------------|----------------|----------|--|-------------------------------|
| MW-1 | 31.3 | 3/30/2009 | 9.45 | 21.85 | 15.0 | 6.78 | 525 | 18.03 |
| | | 7/17/2009 | 10.26 | 21.04 | 5.0 | 7.96 | 465 | 18.68 |
| | | 10/26/2009 | 15.80 | 15.50 | 4.0 | 6.95 | 590 | 21.33 |
| | | 11/26/2009 | 9.94 | 21.36 | -- | -- | -- | -- |
| MW-2 | 31.13 | 3/30/2009 | 9.41 | 21.72 | 15.0 | 6.65 | 686 | 18.43 |
| | | 7/17/2009 | 10.26 | 20.87 | 5.0 | 7.76 | 910 | 18.31 |
| | | 10/26/2009 | 15.81 | 15.32 | 5.0 | 6.60 | 930 | 19.67 |
| | | 11/26/2009 | 9.88 | 21.25 | | | | |
| MW-3 | 31.26 | 3/30/2009 | 10.25 | 21.01 | 15.0 | 6.66 | 712 | 18.40 |
| | | 7/15/2009 | 10.95 | 20.31 | 6.0 | 7.74 | 946 | 17.90 |
| | | 10/26/2009 | 9.80 | 21.46 | 5.0 | 6.58 | 1,000 | 19.23 |
| | | 11/26/2009 | 10.68 | 20.58 | -- | -- | -- | -- |
| MW-4 | 31.15 | 3/30/2009 | 9.98 | 21.17 | 15.0 | 6.83 | 720 | 18.33 |
| | | 7/15/2009 | 10.60 | 20.55 | 4.0 | 7.74 | 881 | 18.03 |
| | | 10/26/2009 | 9.33 | 21.82 | 5.5 | 6.76 | 930 | 19.89 |
| | | 11/26/2009 | 10.30 | 20.85 | -- | -- | -- | -- |
| MW-5 | 31.45 | 3/30/2009 | 9.96 | 21.49 | 13.0 | 6.69 | 724 | 18.53 |
| | | 7/15/2009 | 11.40 | 20.05 | 5.5 | 7.78 | 971 | 18.13 |
| | | 10/26/2009 | 10.31 | 21.14 | 4.5 | 6.49 | 1,000 | 19.71 |
| | | 11/26/2009 | 11.15 | 20.30 | -- | -- | -- | -- |
| MW-6 | 30.91 | 3/30/2009 | 9.60 | 21.31 | 15.0 | 6.89 | 809 | 18.77 |
| | | 7/15/2009 | 10.30 | 20.61 | 5.5 | 8.07 | 1111 | 18.62 |
| | | 10/26/2009 | 9.07 | 21.84 | 6.0 | 6.73 | 1,200 | 20.04 |
| | | 11/26/2009 | 9.97 | 20.94 | -- | -- | -- | -- |

Acronyms:

a Exceeds equipment limits
 C Celsius
 µmhos/cm microsiemens per centimeter

Table 2

Total Petroleum Hydrocarbons, BTEX, and Fuel Oxygenates Concentrations in Groundwater
Former Ambassador Laundry,
City of Emeryville, California

| | Date Sampled | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | ESL DWR | ESL Non DWR |
|------------------------|--------------|--------|------------|--------|--------|--------|--------|------------|----------------|
| Benzene (µg/L) | 4/17/2009 | < 0.5 | 4.9 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 1 | 46 |
| | 7/15-17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | |
| | 10/26/2009 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | | |
| Toluene (µg/L) | 4/17/2009 | < 0.5 | 1.4 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 40 | 130 |
| | 7/15-17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | |
| | 10/26/2009 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | | |
| Ethylbenzene (µg/L) | 4/17/2009 | < 0.5 | 2.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 30 | 43 |
| | 7/15-17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | |
| | 10/26/2009 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | | |
| Xylenes (µg/L) | 4/17/2009 | < 1.0 | 2.5 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 20 | 100 |
| | 7/15-17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | |
| | 10/26/2009 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | | |
| EDB (µg/L) | 4/17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NE | NE |
| | 7/15-17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.64 | | |
| | 10/26/2009 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | | |
| MTBE (µg/L) | 4/17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 5.0 | 1,800 |
| | 7/15-17/2009 | < 0.5 | 2.6 | 3.3 | 2.6 | 3.6 | 2.1 | | |
| | 10/26/2009 | < 0.6 | 2.5 | 3.1 | 2.4 | 3.4 | 1.9 | | |
| DIPE (µg/L) | 4/17/2009 | 8.9 | 26 | 28 | 14 | 9.2 | 7 | NE | NE |
| | 7/15-17/2009 | 4.2 | 24 | 27 | 12 | 18 | 5.2 | | |
| | 10/26/2009 | 7.4 | 21 | 27 | 9.5 | 16 | 4.1 | | |
| TPH-g (µg/L) | 4/17/2009 | < 50 | 310 | < 50 | 200 | < 50 | 170 | 100 | 210 |
| | 7/15-17/2009 | < 50 | < 50 | < 50 | 69 | < 50 | 94 | | |
| | 10/26/2009 | < 40 | 56 | 60 | 78 | 44 | 83 | | |
| TPH-SS (µg/L) | 4/17/2009 | < 50 | < 50 | < 50 | 58 | < 50 | < 50 | 100 | 210 |
| | 7/15-17/2009 | NA | NA | NA | NA | NA | NA | | |
| | 10/26/2009 | NA | NA | NA | NA | NA | NA | | |
| TPH-d (µg/L) | 4/17/2009 | < 50 | 95 | < 50 | 120 | < 50 | 79 | 100 | 210 |
| | 7/15-17/2009 | < 50 | < 50 | < 50 | < 50 | < 50 | 58 * | | |
| | 10/26/2009 | < 33 | < 33 | < 33 | < 33 | < 33 | 36 | | |

Acronyme and Notes

- ESL Environmental Screening Levels- SFRWQCB- May 2008
- SFRWQCB San Francisco Regional Water Quality Control Board
- µg/L micrograms per Liter
- EDB ethylene dibromide
- MTBE Methyl tert Butyl Ether
- TPH-d Total Petroleum Hydrocarbons as diesel
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-SS Total Petroleum Hydrocarbons as Stoddard Solvent
- NA Not Analyzed
- 310** Exceeds ESL
- J3 Associated batch quality control was outside the established quality control range for precision
- DWR Drinking Water Resource
- DIPE Diisopropyl ether
- NE not established
- 58 * gasoline range compounds are significant

Table 3
Field and Biodegradation Parameters in Groundwater
Former Ambassador Laundry,
City of Emeryville, California

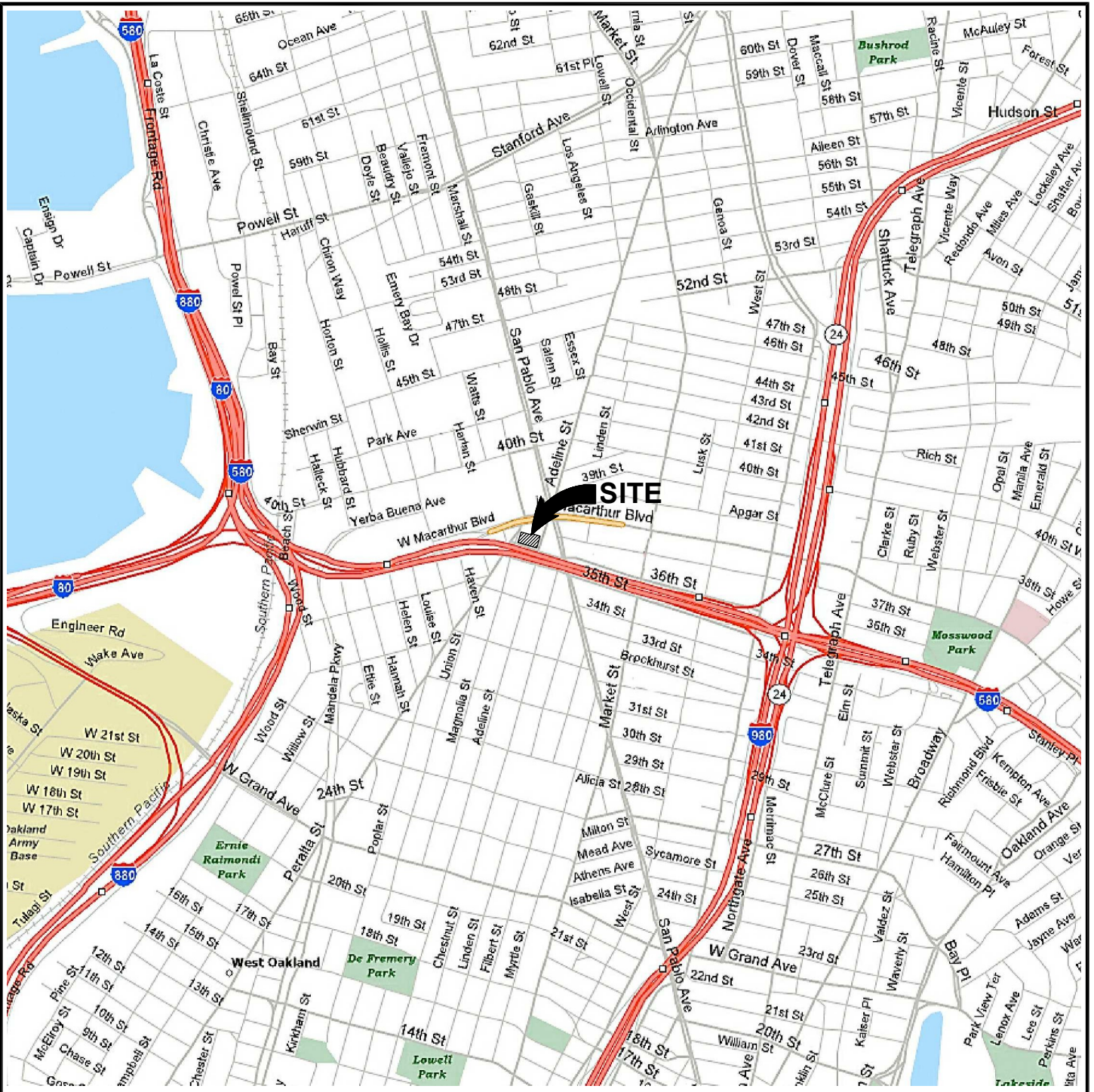
| Parameter | Date Sampled | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 |
|----------------------------|--------------|--------|--------|--------|--------|---------|--------|
| Final DO (mg/L) | 4/17/2009 | 0.94 | 0.47 | 0.09 | 0.15 | 0.3 | 2.13 |
| | 7/15-17/2009 | 0.48 | 0.12 | 0.09 | 0.19 | 0.34 | 0.40 |
| | 10/26/2009 | 9.95 | 0.13 | 0.1 | 1.01 | 0.65 | 0.63 |
| ORP (mEV) | 4/17/2009 | 209.8 | 70.7 | 105.2 | 117.9 | 129.5 | 115.6 |
| | 7/15-17/2009 | 106 | 109.3 | 100.8 | 98.3 | 87.2 | 159.2 |
| | 10/26/2009 | 158.3 | -5.7 | -293 | -41.8 | 27.1 | 42.3 |
| Conductivity (µmhos/cm) | 4/17/2009 | 710 | 1,000 | 1,100 | 1,000 | 1,100 | 1,200 |
| | 7/15-17/2009 | 597 | 955 | 1,020 | 947 | 1,030 | 1,180 |
| | 10/26/2009 | 590 | 930 | 1,000 | 930 | 1,000 | 1,200 |
| TDS (mg/L) | 4/17/2009 | 490 | 600 | 630 | 600 | 650 | 700 |
| | 7/15-17/2009 | 346 | 544 | 650 | 571 | 631 | 717 |
| | 10/26/2009 | 370 | 560 | 610 | 570 | 590 | 740 |
| Sulfate (mg/L) | 4/17/2009 | 78 | 76 | 79 | 81 | 91 | 110 |
| | 7/15-17/2009 | 69 | 76 | 85 | 85 | 82 | 100 |
| | 10/26/2009 | 71 | 78 | 83 | 84 | 84 | 120 |
| Ammonia (mg/L) | 4/17/2009 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | 7/15-17/2009 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| | 10/26/2009 | 0.044J | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.089J |
| Nitrate (mg/L) | 4/17/2009 | 68 J | 20 J | 24 J | 22 J | 18 J | 10 J |
| | 7/15-17/2009 | 59 | 26 | 28 | 28 | 23 | 9.4 |
| | 10/26/2009 | 14 | 6.6 | 6.5 | 6.3 | 5.8 | 1.9 |
| Ferrous (µg/L) | 4/17/2009 | < 0.05 | 0.1 | < 0.05 | < 0.05 | < 0.05 | 0.096 |
| | 7/15-17/2009 | < 0.05 | 0.087 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| | 10/26/2009 | 28 J | 43 J | 40 J | < 50 | < 50 | 480 |
| Phosphate (mg/L) | 4/17/2009 | 0.65 | 0.06 | 0.063 | 0.07 | 0.054 | 0.16 |
| | 7/15-17/2009 | 0.41 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| | 10/26/2009 | 0.13 | 0.06 J | 0.11 | 0.13 | 0.063 J | 0.22 |
| Methane (µg/L) | 4/17/2009 | < 0.1 | 2.4 | 0.59 | 3.2 | < 0.1 | 2.4 |
| | 7/15-17/2009 | < 0.4 | 3.5 | 3.2 | 31 | 3.5 | 55 |
| | 10/26/2009 | < 10 | < 10 | < 10 | 53 | < 10 | 47 |

Acronyme and Notes

| | |
|----------|---|
| DO | Dissolved Oxygen |
| µg/L | micrograms per Liter |
| mg/L | milligrams per Liter |
| µmhos/cm | micromhos per centimeter |
| TDS | Total Dissolved Solids |
| ORP | Oxydation Reduction Potential |
| J | Estimated value below the lowest calibration point. |

PLATES

PLOTTED: 10 Aug 2009, 1:22pm, jsala



LAYOUT: SITE-VIC

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: siteplan.jpg

ATTACHED XREFS: XRef: TB A-port

PLEASANTON, CA CAD FILE: D:\PROJECTS\73943\PWG\WMI

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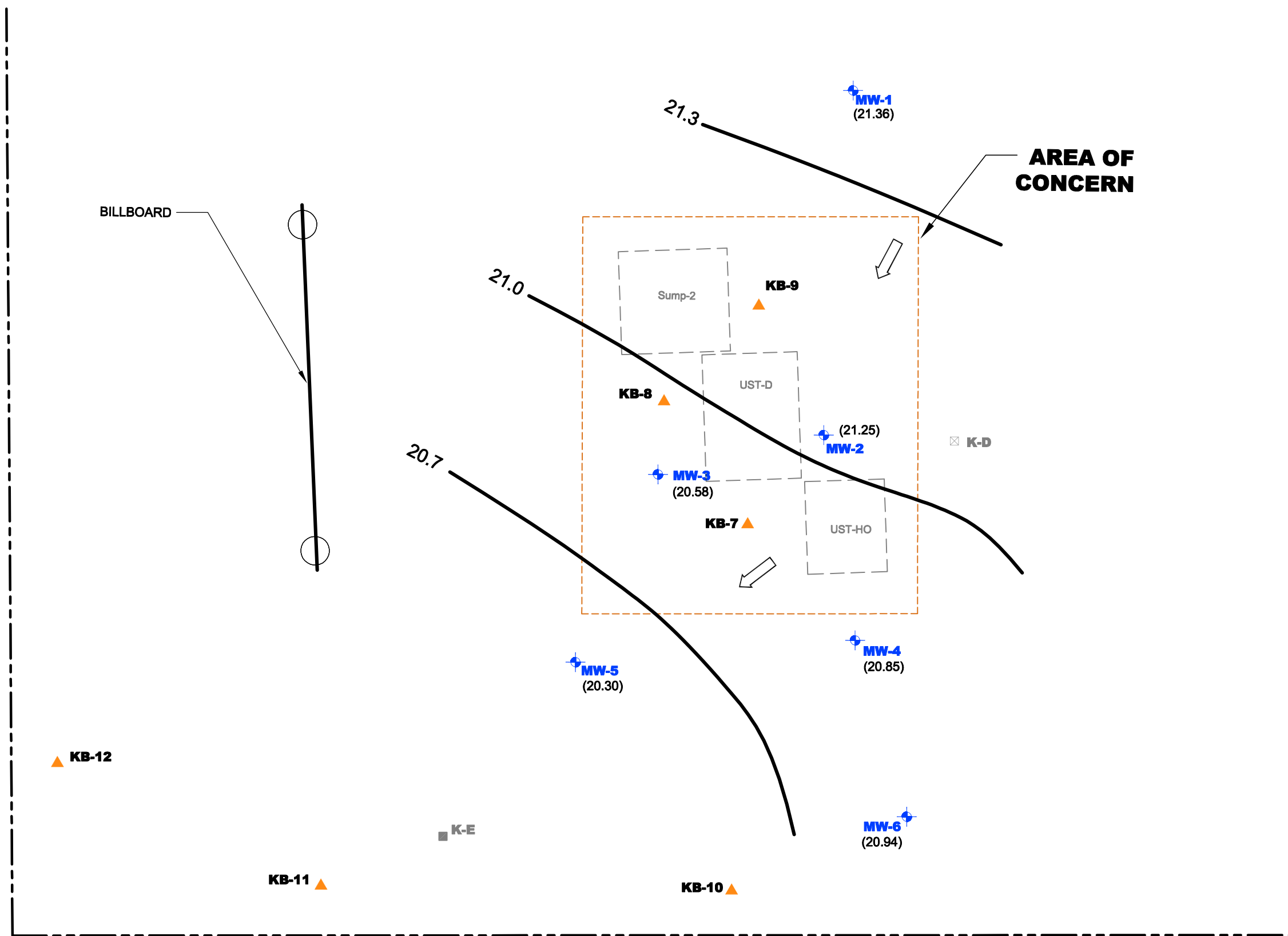
| | |
|--------------|----------|
| PROJECT NO. | 73943 |
| DRAWN: | AUG 2009 |
| DRAWN BY: | JDS |
| CHECKED BY: | AD |
| FILE NAME: | |
| SITE VIC.dwg | |

SITE VICINITY MAP

FORMER AMBASSADOR LAUNDRY
3601-3623 ADELINE STREET
EMERYVILLE, CALIFORNIA

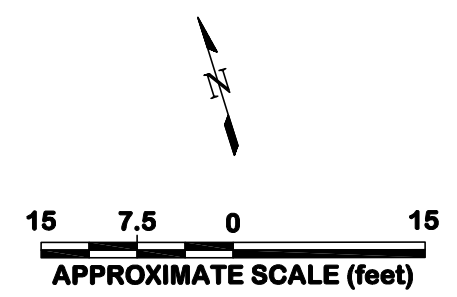
PLATE

1



- LEGEND**
- SITE BOUNDARY
 - ⊕ MONITORING WELL (Kleinfelder, 2009)
 - ▲ BORING (Kleinfelder, 2007)
 - ⊠ EXPLORATORY BORING
 - CONE PENETROMETER TEST
 - UST-HO UST - Heating Oil (Removed 1995)
 - UST-G UST - Gasoline (Removed 1994)
 - UST-D UST - Diesel (Removed 2007)
 - Sump-2 Sump-2 (Removed 2005)
 - (21.36) Groundwater Elevation (feet, NAVD, 1988)
 - 21.0 Groundwater Elevation Contour (feet, NAVD, 1988)
 - ↘ Approximate Groundwater Flow Direction

NOTE: Locations are approximate.



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|-------------|----------------|
| PROJECT NO. | 73943 |
| DRAWN: | NOV 2009 |
| DRAWN BY: | JDS |
| CHECKED BY: | AD |
| FILE NAME: | GW_11-2009.dwg |

**GROUNDWATER SURFACE ELEVATION
CONTOUR AND ESTIMATED
GROUNDWATER FLOW:
NOVEMBER 26, 2009**

FORMER AMBASSADOR LAUNDRY
3601-3623 ADELINE STREET
EMERYVILLE, CALIFORNIA

APPENDIX A
CERTIFIED ANALYTICAL LABORATORY REPORTS AND
CHAINS OF CUSTODY RECORDS



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Tax I.D. 62-0814289

Est. 1970

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710

Oakland, CA 94612

Report Summary

Tuesday November 03, 2009

Report Number: L429011

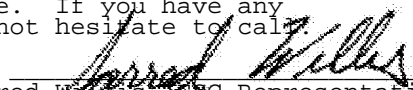
Samples Received: 10/27/09

Client Project: 73943/PWGWM

Description: Former Ambassador Laundry

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
 Kleinfelder - Oakland, CA
 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-1
 Collected By : Alvaro
 Collection Date : 10/26/09 11:45

ESC Sample # : L429011-01
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|---|---------|----------|------|
| Nitrate | 14000 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 71000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | U | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | 28. | 12. | 50. | ug/l | J | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | 44. | 34. | 100 | ug/l | J | 350.1 | 10/30/09 | 1 |
| Phosphorus, Total | 130 | 19. | 100 | ug/l | | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 590 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 370000 | 2500 | 10000 | ug/l | | 2540C | 10/29/09 | 1 |
| TPH (GC/FID) Low Fraction | U | 40. | 100 | ug/l | | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.9 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| Surrogate Recovery o-Terphenyl | 62.4 | | | % Rec. | | 8015 | 10/28/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 7.4 | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 10/29/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Methyl tert-butyl ether | U | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)
 Note:

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Reported: 11/03/09 14:21 Printed: 11/03/09 14:21



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Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-1
Collected By : Alvaro
Collection Date : 10/26/09 11:45

ESC Sample # : L429011-01
Site ID :
Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| m&p-Xylenes | U | 0.33 | 1.0 | ug/l | | 8260B | 10/30/09 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 100. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| Dibromofluoromethane | 97.6 | | | % Rec. | | 8260B | 10/30/09 | 1 |
| a,a,a-Trifluorotoluene | 102. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| 4-Bromofluorobenzene | 98.7 | | | % Rec. | | 8260B | 10/30/09 | 1 |

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
 Kleinfelder - Oakland, CA
 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-2
 Collected By : Alvaro
 Collection Date : 10/26/09 15:15

ESC Sample # : L429011-02
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|-----|---------|----------|------|
| Nitrate | 6600 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 78000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | U | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | 43. | 12. | 50. | ug/l | JP1 | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 10/30/09 | 1 |
| Phosphorus, Total | 60. | 19. | 100 | ug/l | J | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 930 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 560000 | 2500 | 10000 | ug/l | | 2540C | 10/30/09 | 1 |
| TPH (GC/FID) Low Fraction | 56. | 40. | 100 | ug/l | J | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.9 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| Surrogate Recovery o-Terphenyl | 61.7 | | | % Rec. | | 8015 | 10/28/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 21. | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 10/29/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Methyl tert-butyl ether | 2.5 | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-2
Collected By : Alvaro
Collection Date : 10/26/09 15:15

ESC Sample # : L429011-02
Site ID :
Project # : 73943/PWGWM

Table with 9 columns: Parameter, Result, MDL, RDL, Units, Q, Method, Date, Dil. Rows include m&p-Xylenes, Surrogate Recovery, Toluene-d8, Dibromofluoromethane, a,a,a-Trifluorotoluene, and 4-Bromofluorobenzene.

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
 Kleinfelder - Oakland, CA
 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-3
 Collected By : Alvaro
 Collection Date : 10/26/09 16:15

ESC Sample # : L429011-03
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|----|---------|----------|------|
| Nitrate | 6500 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 83000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | U | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | 40. | 12. | 50. | ug/l | J | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 10/30/09 | 1 |
| Phosphorus, Total | 110 | 19. | 100 | ug/l | | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 1000 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 610000 | 2500 | 10000 | ug/l | | 2540C | 10/30/09 | 1 |
| TPH (GC/FID) Low Fraction | 60. | 40. | 100 | ug/l | J | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.7 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | J3 | 8015 | 11/02/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| Surrogate Recovery o-Terphenyl | 112. | | | % Rec. | | 8015 | 11/02/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 27. | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 10/29/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Methyl tert-butyl ether | 3.1 | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

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REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-3
Collected By : Alvaro
Collection Date : 10/26/09 16:15

ESC Sample # : L429011-03
Site ID :
Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| m&p-Xylenes | U | 0.33 | 1.0 | ug/l | | 8260B | 10/30/09 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| Dibromofluoromethane | 99.3 | | | % Rec. | | 8260B | 10/30/09 | 1 |
| a,a,a-Trifluorotoluene | 102. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| 4-Bromofluorobenzene | 99.0 | | | % Rec. | | 8260B | 10/30/09 | 1 |

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November 03, 2009

Alvaro Dominguez
 Kleinfelder - Oakland, CA
 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-4
 Collected By : Alvaro
 Collection Date : 10/26/09 14:30

ESC Sample # : L429011-04
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|---|---------|----------|------|
| Nitrate | 6300 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 84000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | 53. | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | U | 12. | 50. | ug/l | | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 11/02/09 | 1 |
| Phosphorus, Total | 130 | 19. | 100 | ug/l | | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 930 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 570000 | 2500 | 10000 | ug/l | | 2540C | 10/29/09 | 1 |
| TPH (GC/FID) Low Fraction | 78. | 40. | 100 | ug/l | J | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.7 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| Surrogate Recovery o-Terphenyl | 80.8 | | | % Rec. | | 8015 | 11/02/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 9.5 | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 10/29/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Methyl tert-butyl ether | 2.4 | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 10/29/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 10/29/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

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 MDL = Minimum Detection Limit = LOD = SQL(TRRP)

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Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-4
Collected By : Alvaro
Collection Date : 10/26/09 14:30

ESC Sample # : L429011-04
Site ID :
Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| m&p-Xylenes | U | 0.33 | 1.0 | ug/l | | 8260B | 10/30/09 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| Dibromofluoromethane | 100. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| a,a,a-Trifluorotoluene | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| 4-Bromofluorobenzene | 100. | | | % Rec. | | 8260B | 10/30/09 | 1 |

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REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
 Kleinfelder - Oakland, CA
 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-5
 Collected By : Alvaro
 Collection Date : 10/26/09 12:15

ESC Sample # : L429011-05
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|---|---------|----------|------|
| Nitrate | 5800 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 84000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | U | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | U | 12. | 50. | ug/l | | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | U | 34. | 100 | ug/l | | 350.1 | 11/02/09 | 1 |
| Phosphorus, Total | 63. | 19. | 100 | ug/l | J | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 1000 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 590000 | 2500 | 10000 | ug/l | | 2540C | 10/29/09 | 1 |
| TPH (GC/FID) Low Fraction | 44. | 40. | 100 | ug/l | J | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.8 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 10/28/09 | 1 |
| Surrogate Recovery o-Terphenyl | 65.3 | | | % Rec. | | 8015 | 10/28/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 16. | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 11/02/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 11/02/09 | 1 |
| Methyl tert-butyl ether | 3.4 | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 11/02/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 11/02/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 11/02/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

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REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-5
Collected By : Alvaro
Collection Date : 10/26/09 12:15

ESC Sample # : L429011-05
Site ID :
Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| m&p-Xylenes | U | 0.33 | 1.0 | ug/l | | 8260B | 10/30/09 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| Dibromofluoromethane | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| a,a,a-Trifluorotoluene | 102. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| 4-Bromofluorobenzene | 97.4 | | | % Rec. | | 8260B | 10/30/09 | 1 |

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 1970 Broadway - Suite 710
 Oakland, CA 94612

Date Received : October 27, 2009
 Description : Former Ambassador Laundry
 Sample ID : MW-6
 Collected By : Alvaro
 Collection Date : 10/26/09 13:45

ESC Sample # : L429011-06
 Site ID :
 Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|---|--------|------|-------|----------|---|---------|----------|------|
| Nitrate | 1900 | 31. | 100 | ug/l | | 9056 | 10/27/09 | 1 |
| Sulfate | 120000 | 210 | 5000 | ug/l | | 9056 | 10/27/09 | 1 |
| Methane | 47. | 2.0 | 10. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethane | U | 4.0 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ethene | U | 5.7 | 13. | ug/l | | RSK175 | 10/30/09 | 1 |
| Ferrous Iron | 480 | 12. | 50. | ug/l | | 3500Fe- | 10/27/09 | 1 |
| Ammonia Nitrogen | 89. | 34. | 100 | ug/l | J | 350.1 | 11/02/09 | 1 |
| Phosphorus, Total | 220 | 19. | 100 | ug/l | | 365.1 | 11/02/09 | 1 |
| Specific Conductance | 1200 | | | umhos/cm | | 9050A | 10/29/09 | 1 |
| Dissolved Solids | 740000 | 2500 | 10000 | ug/l | | 2540C | 10/29/09 | 1 |
| TPH (GC/FID) Low Fraction | 83. | 40. | 100 | ug/l | J | 8015D/G | 10/31/09 | 1 |
| Surrogate Recovery-% a,a,a-Trifluorotoluene(FID) | 99.1 | | | % Rec. | | 8015D/G | 10/31/09 | 1 |
| Diesel Range Organics California | | | | | | | | |
| C10-C22 Hydrocarbons | 36. | 33. | 100 | ug/l | J | 8015 | 11/02/09 | 1 |
| C22-C32 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| C32-C40 Hydrocarbons | U | 33. | 100 | ug/l | | 8015 | 11/02/09 | 1 |
| Surrogate Recovery o-Terphenyl | 86.5 | | | % Rec. | | 8015 | 11/02/09 | 1 |
| Volatiles - Oxygenates | | | | | | | | |
| Di-isopropyl ether | 4.1 | 0.25 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethanol | U | 46. | 100 | ug/l | | 8260B | 11/02/09 | 1 |
| Ethyl tert-butyl ether | U | 0.10 | 1.0 | ug/l | | 8260B | 11/02/09 | 1 |
| Methyl tert-butyl ether | 1.9 | 0.19 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| t-Amyl Alcohol | U | 12. | 50. | ug/l | | 8260B | 11/02/09 | 1 |
| tert-Butyl alcohol | U | 12. | 50. | ug/l | | 8260B | 11/02/09 | 1 |
| tert-Amyl Methyl Ether | U | 0.10 | 1.0 | ug/l | | 8260B | 11/02/09 | 1 |
| Benzene | U | 0.29 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dichloroethane | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| 1,2-Dibromoethane | U | 0.48 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Ethylbenzene | U | 0.22 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Naphthalene | U | 0.17 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| Toluene | U | 0.27 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |
| o-Xylene | U | 0.16 | 0.50 | ug/l | | 8260B | 10/30/09 | 1 |

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL
 MDL = Minimum Detection Limit = LOD = SQL(TRRP)
 Note:

The reported analytical results relate only to the sample submitted.
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Reported: 11/03/09 14:21 Printed: 11/03/09 14:22



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Est. 1970

REPORT OF ANALYSIS

November 03, 2009

Alvaro Dominguez
Kleinfelder - Oakland, CA
1970 Broadway - Suite 710
Oakland, CA 94612

Date Received : October 27, 2009
Description : Former Ambassador Laundry
Sample ID : MW-6
Collected By : Alvaro
Collection Date : 10/26/09 13:45

ESC Sample # : L429011-06
Site ID :
Project # : 73943/PWGWM

| Parameter | Result | MDL | RDL | Units | Q | Method | Date | Dil. |
|------------------------|--------|------|-----|--------|---|--------|----------|------|
| m&p-Xylenes | U | 0.33 | 1.0 | ug/l | | 8260B | 10/30/09 | 1 |
| Surrogate Recovery | | | | | | | | |
| Toluene-d8 | 102. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| Dibromofluoromethane | 101. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| a,a,a-Trifluorotoluene | 102. | | | % Rec. | | 8260B | 10/30/09 | 1 |
| 4-Bromofluorobenzene | 99.0 | | | % Rec. | | 8260B | 10/30/09 | 1 |

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Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|---------------------------|---------|-----------|
| L429011-01 | WG448300 | SAMP | Ammonia Nitrogen | R976648 | J |
| | WG447759 | SAMP | Ferrous Iron | R968329 | J |
| L429011-02 | WG448297 | SAMP | Phosphorus, Total | R980748 | J |
| | WG447759 | SAMP | Ferrous Iron | R968329 | JP1 |
| | WG448218 | SAMP | TPH (GC/FID) Low Fraction | R977968 | J |
| L429011-03 | WG448619 | SAMP | C22-C32 Hydrocarbons | R980248 | J3 |
| | WG447759 | SAMP | Ferrous Iron | R968329 | J |
| | WG448218 | SAMP | TPH (GC/FID) Low Fraction | R977968 | J |
| L429011-04 | WG448218 | SAMP | TPH (GC/FID) Low Fraction | R977968 | J |
| L429011-05 | WG448297 | SAMP | Phosphorus, Total | R980748 | J |
| | WG448218 | SAMP | TPH (GC/FID) Low Fraction | R977968 | J |
| L429011-06 | WG447820 | SAMP | C10-C22 Hydrocarbons | R971408 | J |
| | WG448301 | SAMP | Ammonia Nitrogen | R979148 | J |
| | WG448218 | SAMP | TPH (GC/FID) Low Fraction | R977968 | J |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
11/03/09 at 14:22:07

TSR Signing Reports: 358
R4 - Rush: Three Day

Log all samples for QC2MODCN. Log all samples for EDD - Geotracker EDF. All samples get MDL/RDL reporting. enter client type KLNf

Sample: L429011-01 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21

Sample: L429011-02 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21

Sample: L429011-03 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21

Sample: L429011-04 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21

Sample: L429011-05 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21

Sample: L429011-06 Account: KLEINOCA Received: 10/27/09 09:00 Due Date: 11/03/09 00:00 RPT Date: 11/03/09 14:21