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Alameda County Environmental Health

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Project No.: 085101 Via Email/mail: <u>steve.plunkett@acgov.org</u> Via Email/Mail: <u>ridgerat10@aol.com</u>

Re: Technical Report for RO#2447 Drive-Sampling, Soil Sampling & Analysis, Grab Groundwater Sampling & Analysis, and Technical Reporting 50 Hegenberger Loop, Oakland, California.

INTRODUCTION

At the request of Alameda County Health Care Agency, Environmental Health Services (EHS), The Consulting Group (TCG) prepared a Workplan for this third phase of investigation in June of 2008. This document is the report task for the project, after the fieldwork and laboratory tasks have been completed. Figures 1 and 2 show the location and layout of the site.

SCOPE-OF-WORK PROPOSED

The scope-of-work (SOW) for this third phase of work was:

- Drive-Sampling¹ of three holes (B-4 through B-6²) to a depth of 20 feet below grade (fbg),
- Soil sampling and analysis, and grab groundwater sampling and analysis from each Drive-Sampling holes,
- Analysis for: Gasoline Range Organics (GRO), the aromatics: Benzene, Toluene, Ethyl-Benzene, and Xylenes (BTEX), the Fuel Oxygenates (FOx), and Diesel Range Organics (DRO) and Motor Oil Range Organics (MORO) with Silica Gel,
- Review the Analytical Results and comparison to the Environmental Screening Levels (ESLs),
- Preparation a Technical Report that discusses: tasks performed, outlines observations, draws conclusions, and makes recommendations, as necessary.

¹ Drive-Sampling (D-S) is a term used by TCG and others to describe a technique used in subsurface investigation of soil, and/or water using a rig that advances the drill rod, stem, and sampling tube by a driving action through the soil instead of drilling the soil out. It is used to investigate shallower depths that do not require the construction of monitor wells. It creates far less cuttings that need to be handled and disposed of.

 $^{^2}$ Hole B-6 was approximately 19.8 fbg (D-S hole began approximately 20 feet south of final depth location at an angle of approximately 45 degrees (see Figures 2 through 5)

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<u>SITE BACKGROUND AND SETTING</u>

Borings B1 through B3 were installed in late 2005. Soil samples indicated that GRO, in B3 at 7.5 feet below grade (fbg), was above its Environmental Screening Level (ESL) of 100 milligrams/kilogram (mg/kg) at 600 mg/kg, and that Ethyl-Benzene, in B3 at 7.5 fbg, was above its ESL of 2.3 mg/kg, at 8.3 mg/kg. Grab groundwater samples indicated the presence of GRO ranging from 53 micrograms/liter (ug/L) to 350 mg/L, with its ESL at 100 ug/L. Recommendation was to close the site. In response to 2006 and 2007 EHS requests for additional information to support site closure, supplemental investigations were undertaken that included:

- Boring Logs,
- Water sampling of irrigation well on-site,
- A 2,000-foot County and State well search, and
- More borings, with sampling of soil and groundwater for analysis.

These actions will be the subject of this document.

The site is located in the San Francisco Bay region approximately 0.5 miles east of the San Francisco Bay. The site sits approximately seven feet-above mean sea level (ft-amsl). The land slopes to the west towards the San Francisco Bay.

SITE GEOLOGY AND HYDROGEOLOGY

The site is located on Quaternary Alluvium. The upper 5 to 15 ft generally consist of unconsolidated gravel, sand, silt, and clay. Shallow groundwater in the area is brackish and cannot be used for drinking water. The regional direction of the shallow groundwater flow is towards the San Francisco Bay, but localized groundwater flow direction has been northerly.³

OBJECTIVES

The objective of this work is to obtain data upon which site closure will be completed. The data from these three drive-sample holes will be used in conjunction with previous data and other information available from the site. Typically, those data can include:

- a) Source definition,
- b) Quantity of materials released,
- c) Initial soil and ground water levels of concern,

 $^{^{3}}$ There are no registered wells within two blocks of the site, including the one on-site well. Since there are no registered wells in the area, we are unable to determine or verify groundwater flow direction in the area. The regional flow is to the north-northwest on this side of route 880 according to the ACPWA. We will use their determination along with the fact that the holes will be either in the former tankpit footprint (1) down-gradient (1) of it, or cross-gradient (1).



- d) Mitigation actions taken, including natural attenuation,
- e) Pollutant soil levels now, compared to initial levels obtained from excavation bottoms and stockpiled soil,
- f) Field steps taken to isolate higher pollutant level soil from acceptable pollutant level soil,
- g) Projected future releases or pollutants or lack thereof, and
- h) Assessment and declaration of acceptable risk as a basis for agency approval of closure of this site.

The Drilling, and sampling and analyses were performed in accordance with the attached (Attachment 1) standard operating procedures (SOPs), the American Society of Testing Materials (ASTM), practice standards #E1903, State of California Requirements, Alameda County Public Works Agency (ACPWA), and the Alameda County Health Care Agency, Environmental Health Services (EHS) guidelines. Continuous coring, that is afforded by Drive-Sampling allowed for the viewing of the entire removed drilling core prior to choosing the sample locations.

The rationale for choosing a sample depth was

- The presence of pollution as determined by the field geologist,
- Change in lithology as determined by the field geologist,
- Discoloration with no odor as determined by the field geologist,
- Amount of moisture, using dry, moist, and wet relative interpretations.

SCOPE-OF-WORK PERFORMED

The tasks performed are described below, and the Standard Operating Procedures (SOP) for Sampling of Soil and Groundwater, Liquid Level Gauging, and Sample Labeling and Chain-of-Custody (COC) forms are in Attachment 1.

WORKPLAN AND PERMIT PREPARATION

A Workplan was prepared and submitted, on 04 June 2008, to EHS for review, comment, and approval. After discussions with EHS pertaining to Statement of Work and format, the Workplan was resubmitted by TCG on 18 August 2008, and approved by EHS on 30 October 2008.

As part of the permit application process⁴, TCG completed (Attachment 2):

- An ACPWA soil boring permit application, and
- Paid \$230 for the approved Boring permit.

⁴ The permit application is referred to as a "Boring Permit Application" even though it is for the "Drive-Sampling" technology.



The data quality objectives for this study were used to support the determination of lateral and vertical extent of migration of Chemicals Potential of Concern (COPC). These data were not intended to serve alone as the clearance data that would defend a no further action recommendation. Specific objectives of these data include US EPA, State of California, or local requirements for:

- a. Standard sampling protocol
- b. Standard analytical methods
- c. Standard data reporting

CONCRETE CORE-HOLES

Each drive-sampling location (see Figure 2) required the installation of core-holes. The (6 inch in diameter) concrete core-holes were cut by Precision Sampling, of Richmond, California (Precision), under TCG supervision and guidance.

Drive-Sampling

The (2 inch in diameter) drive-sample holes were installed by Precision, under TCG supervision and guidance. TCG chose the locations of drive-sampling holes⁵ based on location of the area of concern, discussions with EHS, topography in the immediate vicinity and estimated groundwater flow direction.

DETERMINING BOREHOLE B-6 FINAL LOCATION AND DEPTH

The Borehole B-6 location was drilled to the former tankpit (TP-1) location, which is presently covered by a doublewide mobile office trailer that was not to be moved. To remedy this, TCG designed a slant drilling procedure so that Precision could drill the Borehole at an angle of approximately 45 degrees toward the former TP-1 location starting just south of the mobile office spaces (see Figure 2). The equations used to determine the final location and depth of the Borehole (see Figures 2, 3, 4, and 5) were:

Sin θ = opposite/hypotenuse, and A² + B² = C².

Where:

Sin $\theta = 45^{\circ} = 0.7071$, opposite = X ft, and Hypotenuse = 28 ft

0.7071 = X ft/28 ft

$$0.7071 \ge 28 = X$$
, $X = 19.80 \text{ ft}$

⁵ All Drive-Sample hole locations and samples collected for analysis were approved by the EHS Site Inspector: Steven Plunkett.



$$A^{2} + 19.80^{2} = 28.00^{2}$$

 $A^{2} = 784 - 392 = 392 \text{ ft}^{2}$
 $A = 19.80 \text{ ft}$

The final depth was calculated to be 19.80 fbg, and the final horizontal distance of 19.8 fbg was determined to be in the former TP-1 location (Figure 2).

LITHOLOGY

There was concrete at the top of all three holes that was 4 inches thick. Below this was a gravel baserock in a layer of about 4 inches. Once the core-holes in the concrete were in place, Precision was directed to D-S and TCG sampled using the continuous-core (4-ft butyrate liner runs) down to:

- 18 fbg in B-4,
- 20 fbg in B-5, and
- 28 feet at a 45-degree angle in B-6 for a total depth of 19.80 fbg.

The boring logs for all three borings are included in Attachment 2.

BOREHOLE B-4

Borehole B-4 was pushed to a depth of 18 fbg where the drill rig meet refusal. In Borehole B-4 below the baserock layer to about 3 feet 2 inches was green/tan silty clay that was discolored and odorous. Below this to about 7 feet was green clay that was highly plastic. A green layer of sand about 4 inches thick (7 to 7.3 fbg) that was odorous was observed below the clay. The material was moist at about 5 feet and again at about 7.5 feet. Green and black clay that was highly plastic was observed below the sand to a depth of about 11.5 feet. Groundwater was observed at 10.5 fbg. Below the green and black clay was green/gray silty sand from a depth of 11.5 feet to a depth of 12 feet. From 12 feet to 14 fbg feet, a tan/green sand was observed a tan/green silty clay.

BOREHOLE B-5

Borehole B-5 was pushed to a depth of 20 fbg. In Borehole B-5 below the baserock layer to about 5 feet was green silty sand that was discolored and odorous. The material was moist at about 5 feet. Below the silty sand to about 9 feet was green/black silty clay followed by a green/tan clay that was highly plastic to a depth of around 12 feet. Groundwater was observed at around 10.5 fbg. From 12 feet to 13 feet there was a layer of black silty clay and below this to a depth of 16 feet was a layer of tan/black silty sand. From 16 feet to 19 feet was a layer of tan clayey silt and below the silt to a depth of 20 feet was a layer of silty clay.



BOREHOLE B-6

Borehole B-6 was pushed 28 feet at a 45 degree angle for a total vertical depth of approximately 19.8 fbg (sample drilled approximately 19.80 feet south of final depth location (see Figures 2 through 5). In Borehole B-6 below the baserock layer to about 3 feet of tube was black/green silty clay that was highly plastic. Following the silty clay to about 5 feet of butyrate tube was green/black silty clay mixed with gravel followed by a black/green clayey silt mixed with gravel and sand to 13 feet of tube. After the clayey silt, green/black clay that was highly plastic was observed to 15 feet of butyrate tube followed by green clayey silt of medium plasticity to 17 feet of butyrate tube. Green clayey sand was then observed to 19 feet followed by tan clayey silt to 21 feet of butyrate tube. From 21 to 22 feet of tube green/black gravelly sand was observed. From 22 feet to 24 feet of butyrate tube, tan clayey silt was observed and from 24 feet to 28 feet of tube tan clayey silt mixed with gravel and sand was observed.

SOIL SAMPLING

Soil samples were selected and collected for analysis after reviewing the entire core removed from the hole. The criterion for analyzing a sample was stated above. Soil sample locations and amounts were proposed by TCG and taken only with the approval of Steven Plunkett from the EHS. The original Workplan called for four soil samples from each boring. At the direction of Steven Plunkett from the EHS, TCG collected six soil samples from Borehole B-4, six soil samples from Borehole B-5, and seven Borehole samples from B-6. The soil samples and grab groundwater samples were analyzed for:

- o GRO, BTEX, and FOx, and
- DRO and MORO with SG.
- In Borehole B-4, TCG collected soil samples at 4 fbg (sample B4-4), 7 fbg (sample B4-7), 10 fbg (sample B4-10), 11.5 fbg (sample B4-11.5), 15 fbg (sample B4-15), and 18 fbg (sample B4-18).
- In Borehole B-5, TCG collected soil samples at 4 fbg (sample B5-4), 7 fbg (sample B5-7), 13 fbg (sample B5-13), 15 fbg (sample B5-15), 19 fbg (sample B5-19), and 20 fbg (sample B5-20).
- In Borehole B-6, TCG collected soil samples at 1.5 feet of butyrate tube (fbt) [1.06 fbg] (sample B6-1.5), 8 fbt [5.66 fbg] (sample B6-8), 12 fbt [8.49 fbg] (sample B6-12), 16 fbt [11.31 fbg] (sample B6-16), 20 fbt [14.14 fbg] (sample B6-20), 24 fbt [16.97 fbg] (sample B6-24), and 28 fbt [19.80 fbg] (sample B6-28).

The samples were collected in butyrate sample tubing; the tube was cut, using tools that did not heat up the sample or introduce other materials in the 6 inches column of soil that made up a



sample. The sample tube was sealed with Teflon®-lined plastic caps, labeled, and placed on ice until delivery to the state-certified laboratory.

After the soil samples were collected, the open holes were allowed to recharge so that a grab groundwater sample from each hole could be collected. Grab groundwater samples were obtained using two amber 1-liters (extractibles) bottles and six 40-ml VOA vials (volatiles). A disposable bailer was used to obtain the grab groundwater sample that was placed in the appropriate containers and sealed, labeled, and placed on ice until delivery to the state-certified laboratory. The soil and grab groundwater samples were delivered to the laboratory under strict chain-of-custody (COC) procedures. Groundwater was found in each hole at approximately 10.5 fbg.

Cuttings from the D-S were handled as prescribed in SOP 2b (attached), and are on-site pending laboratory results.

The drive-sample holes were grouted after the collection of the grab groundwater samples according to requirements of the permit (Attachment 2) and SOP 2b.

CHEMICAL ANALYSIS

The soil and grab groundwater samples were picked up at the site by a Test America (TA) courier and delivered to their state-certified laboratory in Pleasanton, California. Nineteen soil samples were selected for analysis for DRO, GRO, MORO, BTEX, FOx, and the LUFT metals. The analytical methods employed for soil were the same as those for the grab groundwater samples with the exception of the soil extraction step.

SOIL SAMPLE ANALYSIS

The analytic results are discussed briefly below, tabulated by boring, in Tables 1 through 3, and the laboratory results and COC forms are included in Attachment 3.

Borehole B-4

Sample B4-4

Analytical results indicated that:

For PHCs:

- DRO⁶ was detected at 3.8 milligrams per kilogram (mg/kg) with an Reporting Limit (RL) of 1.0 mg/kg,
- GRO was detected at 0.93 mg/kg with an RL of 1.0 mg/kg, and

⁶ According to client, diesel was never stored on-site either underground or aboveground.



• MORO was ND with an RL of 50 mg/kg,

For aromatics:

- Benzene was ND with an RL of 0.0049 mg/kg,
- Toluene was ND with an RL of 0.0049 mg/kg,
- Ethylbenzene was ND with an RL of 0.0049 mg/kg, and
- Total Xylenes were detected at 0.011 mg/kg with an RL of 0.0099 mg/kg,

For FOx:

- Methyl tert Butyl Ether (MTBE) was ND with an RL of 0.0049 mg/kg,
- tert-Amyl methyl ether (TAME) was ND with an RL of 0.0049 mg/kg,
- Ethyl tert-butyl ether (ETBE) was ND with an RL of 0.0049 mg/kg,
- Di-isopropyl Ether (DIPE) was ND with an RL of 0.0049 mg/kg,
- Tert Butyl Alcohol (TBA) was ND with an RL of 0.0049 mg/kg,
- Ethylene DiBromide (EDB) was ND with an RL of 0.0049 mg/kg, and
- 1,2-Dichloroethane (1,2-DCA) was ND with an RL of 0.0049 mg/kg.

Sample B4-7

Analytical results indicated that:

For PHCs:

- DRO was detected at 26 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 270 mg/kg with an RL of 0.96 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.96 mg/kg,
- Toluene was ND with an RL of 0.96 mg/kg,
- Ethylbenzene was ND with an RL of 0.96 mg/kg, and
- Total Xylenes were ND with an RL of 1.9 mg/kg.

- MTBE was ND with an RL of 0.96 mg/kg,
- TAME was ND with an RL of 0.96 mg/kg,
- ETBE was ND with an RL of 0.96 mg/kg,
- DIPE was ND with an RL of 0.96 mg/kg,
- TBA was ND with an RL of 1.9 mg/kg,
- EDB was ND with an RL of 0.96 mg/kg, and
- 1,2-DCA was ND with an RL of 0.96 mg/kg.



Sample B4-10

Analytical results indicated that:

For PHCs:

- DRO was detected at 1.9 mg/kg with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0048 mg/kg,
- Toluene was ND with an RL of 0.96 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0096 mg/kg.

For FOx

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.0048 mg/kg,
- TBA was ND with an RL of 0.0096 mg/kg,
- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Sample B4-11.5

Analytical results indicated that:

For PHCs:

- DRO was detected at 4.1 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 21 mg/kg with an RL of 1.2 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.023 mg/kg,
- Toluene was ND with an RL of 0.023 mg/kg,
- Ethylbenzene was detected at 0.11 mg/kg with an RL of 0.023 mg/kg,
- Total Xylenes were ND with an RL of 0.046 mg/kg, and
- TAME was ND with an RL of 0.023 mg/kg.

- MTBE was ND with an RL of 0.023 mg/kg,
- ETBE was ND with an RL of 0.023 mg/kg,
- DIPE was ND with an RL of 0.023 mg/kg,
- TBA was ND with an RL of 0.046 mg/kg,



- EDB was ND with an RL of 0.023 mg/kg, and
- 1,2-DCA was ND with an RL of 0.023 mg/kg.

Sample B4-15

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was detected at 9.9 mg/kg with an RL of 1.1 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.022 mg/kg,
- Toluene was ND with an RL of 0.022 mg/kg,
- Ethylbenzene was detected at 0.050 mg/kg with an RL of 0.022 mg/kg, and
- Total Xylenes were ND with an RL of 0.043 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.022 mg/kg,
- TAME was ND with an RL of 0.022 mg/kg,
- ETBE was ND with an RL of 0.022 mg/kg,
- DIPE was ND with an RL of 0.022 mg/kg,
- TBA was ND with an RL of 0.043 mg/kg,
- EDB was ND with an RL of 0.022 mg/kg, and
- 1,2-DCA was ND with an RL of 0.022 mg/kg.

Sample B4-18

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was ND mg/kg with an RL of 0.23 mg/kg,
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0047 mg/kg,
- Toluene was ND with an RL of 0.0047 mg/kg,
- Ethylbenzene was ND with an RL of 0.0047 mg/kg, and
- Total Xylenes were ND with an RL of 0.0093 mg/kg.

- MTBE was ND with an RL of 0.0047 mg/kg,
- TAME was ND with an RL of 0.0047 mg/kg,



- ETBE was ND with an RL of 0.0047 mg/kg,
- DIPE was ND with an RL of 0.0047 mg/kg,
- TBA was ND with an RL of 0.0093 mg/kg,
- EDB was ND with an RL of 0.0047 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0047 mg/kg.

Borehole B-5

Sample B5-4

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was detected at 0.40 mg/kg with an RL of 0.23 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0047 mg/kg,
- Toluene was ND with an RL of 0.0047 mg/kg,
- Ethylbenzene was ND with an RL of 0.0047 mg/kg, and
- Total Xylenes were ND with an RL of 0.0094 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0047 mg/kg,
- TAME was ND with an RL of 0.0047 mg/kg,
- ETBE was ND with an RL of 0.0047 mg/kg,
- DIPE was ND with an RL of 0.0047 mg/kg,
- TBA was ND with an RL of 0.0094 mg/kg,
- EDB was ND with an RL of 0.0047 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0047 mg/kg.

Sample B5-7

Analytical results indicated that:

For PHCs:

- DRO was detected at 2.7 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 150 mg/kg with an RL of 50 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.99 mg/kg,
- Toluene was ND with an RL of 0.99 mg/kg,
- Ethylbenzene was ND with an RL of 0.99 mg/kg, and



• Total Xylenes were ND with an RL of 2.0 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.99 mg/kg,
- TAME was ND with an RL of 0.99 mg/kg,
- ETBE was ND with an RL of 0.99 mg/kg,
- DIPE was ND with an RL of 0.99 mg/kg,
- TBA was ND with an RL of 2.0 mg/kg,
- EDB was ND with an RL of 0.99 mg/kg, and
- 1,2-DCA was ND with an RL of 0.99 mg/kg.

Sample B5-13

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was detected at 0.48 mg/kg with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0049 mg/kg,
- Toluene was ND with an RL of 0.0049 mg/kg,
- Ethylbenzene was ND with an RL of 0.0049 mg/kg, and
- Total Xylenes were ND with an RL of 0.0098 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0049 mg/kg,
- TAME was ND with an RL of 0.0049 mg/kg,
- ETBE was ND with an RL of 0.0049 mg/kg,
- DIPE was ND with an RL of 0.0049 mg/kg,
- TBA was ND with an RL of 0.0098 mg/kg,
- EDB was ND with an RL of 0.0049 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0049 mg/kg.

Sample B5-15

Analytical results indicated that:

For PHCs:

- DRO was detected at 3.1 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 220 mg/kg with an RL of 49 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.



For Aromatics:

- Benzene was ND with an RL of 0.99 mg/kg,
- Toluene was ND with an RL of 0.99 mg/kg,
- Ethylbenzene was ND with an RL of 0.99 mg/kg, and
- Total Xylenes were ND with an RL of 2.0 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.99 mg/kg,
- TAME was ND with an RL of 0.99 mg/kg,
- ETBE was ND with an RL of 0.99 mg/kg,
- DIPE was ND with an RL of 0.99 mg/kg,
- TBA was ND with an RL of 2.0 mg/kg,
- EDB was ND with an RL of 0.99 mg/kg, and
- 1,2-DCA was ND with an RL of 0.99 mg/kg.

Sample B5-19

Analytical results indicated that:

For PHCs:

- DRO was detected at 1.4 mg/kg with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0048 mg/kg,
- Toluene was ND with an RL of 0.0048 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0097 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.0048 mg/kg,
- TBA was ND with an RL of 0.0097 mg/kg,
- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Sample B5-20

Analytical results indicated that:

For PHCs:

DRO was detected at 1.7 mg/kg with an RL of 1.0 mg/kg,



- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0048 mg/kg,
- Toluene was ND with an RL of 0.0048 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0097 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.0048 mg/kg,
- TBA was ND with an RL of 0.0097 mg/kg,
- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Borehole B-6

Sample B6-1.5

Analytical results indicated that:

For PHCs:

- DRO was detected at 1.9 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 0.28 mg/kg with an RL of 0.23 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0047 mg/kg,
- Toluene was ND with an RL of 0.0047 mg/kg,
- Ethylbenzene was ND with an RL of 0.0047 mg/kg, and
- Total Xylenes were ND with an RL of 0.0094 mg/kg.

- MTBE was ND with an RL of 0.0047 mg/kg,
- TAME was ND with an RL of 0.0047 mg/kg,
- ETBE was ND with an RL of 0.0047 mg/kg,
- DIPE was ND with an RL of 0.0047 mg/kg,
- TBA was ND with an RL of 0.0094 mg/kg,
- EDB was ND with an RL of 0.0047 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0047 mg/kg.



Sample B6-8

Analytical results indicated that:

For PHCs:

- DRO was detected at 12 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 430 mg/kg with an RL of 48 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.95 mg/kg,
- Toluene was ND with an RL of 0.95 mg/kg,
- Ethylbenzene was ND with an RL of 0.95 mg/kg, and
- Total Xylenes were ND with an RL of 1.9 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.95 mg/kg,
- TAME was ND with an RL of 0.95 mg/kg,
- ETBE was ND with an RL of 0.95 mg/kg,
- DIPE was ND with an RL of 0.95 mg/kg,
- TBA was ND with an RL of 1.9 mg/kg,
- EDB was ND with an RL of 0.95 mg/kg, and
- 1,2-DCA was ND with an RL of 0.95 mg/kg.

Sample B6-12

Analytical results indicated that:

For PHCs:

- DRO was detected at 2.3 mg/kg with an RL of 1.0 mg/kg,
- GRO was detected at 1.3 mg/kg with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0048 mg/kg,
- Toluene was ND with an RL of 0.0048 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0096 mg/kg.

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.95 mg/kg,
- TBA was ND with an RL of 0.0095 mg/kg,



- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Sample B6-16

Analytical results indicated that:

For PHCs:

- DRO was detected at 1.1 mg/kg with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0048 mg/kg,
- Toluene was ND with an RL of 0.0048 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0096 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.0048 mg/kg,
- TBA was ND with an RL of 0.0096 mg/kg,
- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Sample B6-20

Analytical results indicated that:

For PHCs:

- DRO was detected at 2.2 mg/kg with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0047 mg/kg,
- Toluene was ND with an RL of 0.0047 mg/kg,
- Ethylbenzene was ND with an RL of 0.0047 mg/kg, and
- Total Xylenes were ND with an RL of 0.0095 mg/kg.

- MTBE was ND with an RL of 0.0047 mg/kg,
- TAME was ND with an RL of 0.0047 mg/kg,



- ETBE was ND with an RL of 0.0047 mg/kg,
- DIPE was ND with an RL of 0.0047 mg/kg,
- TBA was ND with an RL of 0.0095 mg/kg,
- EDB was ND with an RL of 0.0047 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0047 mg/kg.

Sample B6-24

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.24 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0047 mg/kg,
- Toluene was ND with an RL of 0.0048 mg/kg,
- Ethylbenzene was ND with an RL of 0.0048 mg/kg, and
- Total Xylenes were ND with an RL of 0.0096 mg/kg.

For FOx:

- MTBE was ND with an RL of 0.0048 mg/kg,
- TAME was ND with an RL of 0.0048 mg/kg,
- ETBE was ND with an RL of 0.0048 mg/kg,
- DIPE was ND with an RL of 0.0048 mg/kg,
- TBA was ND with an RL of 0.0096 mg/kg,
- EDB was ND with an RL of 0.0048 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0048 mg/kg.

Sample B6-28

Analytical results indicated that:

For PHCs:

- DRO was ND with an RL of 1.0 mg/kg,
- GRO was ND with an RL of 0.25 mg/kg, and
- MORO was ND with an RL of 50 mg/kg.

For Aromatics:

- Benzene was ND with an RL of 0.0049 mg/kg,
- Toluene was ND with an RL of 0.0049 mg/kg,
- Ethylbenzene was ND with an RL of 0.0049 mg/kg, and
- Total Xylenes were ND with an RL of 0.0099 mg/kg.



For FOx:

- MTBE was ND with an RL of 0.0049 mg/kg,
- TAME was ND with an RL of 0.0049 mg/kg,
- ETBE was ND with an RL of 0.0049 mg/kg,
- DIPE was ND with an RL of 0.0049 mg/kg,
- TBA was ND with an RL of 0.0099 mg/kg,
- EDB was ND with an RL of 0.0049 mg/kg, and
- 1,2-DCA was ND with an RL of 0.0049 mg/kg.

GRAB GROUNDWATER SAMPLE ANALYSIS

The analytic results are discussed briefly below, tabulated, by boring, in Tables 1 through 3, and the laboratory results and COC forms are included in Attachment 3.

Borehole B-4 Groundwater (sample B4-W)

Analytical results indicated that:

For PHCs:

- DRO was detected at 340 micrograms per Liter (ug/L) with an RL of 50 ug/L,
- GRO was detected at 1200 ug/L with an RL of 50 ug/L, and
- MORO was ND with an RL of 500 ug/L.

For Aromatics:

- Benzene was detected at 4.0 ug/L with an RL of 0.50 ug/L,
- Toluene was ND with an RL of 0.50 ug/L,
- Ethylbenzene was detected at 28 ug/L with an RL of 0.50 ug/L, and
- Total Xylenes were detected at 1.5 ug/L with an RL of 1.0 ug/L.

For FOx:

- MTBE was ND with an RL of 0.50 ug/L,
- TAME was ND with an RL of 0.50 ug/L,
- ETBE was ND with an RL of 0.50 ug/L,
- DIPE was ND with an RL of 1.0 ug/L,
- TBA was ND with an RL of 5.0 ug/L,
- EDB was ND with an RL of 0.50 ug/L, and
- 1,2-DCA was ND with an RL of 0.50 ug/L.

Borehole B-5 Groundwater (sample B5-W)

Analytical results indicated that:

For PHCs:

- DRO was detected at 560 ug/L with an RL of 50 ug/L,
- GRO was detected at 4600 ug/L with an RL of 50 ug/L, and



• MORO was ND with an RL of 500 ug/L.

For Aromatics:

- Benzene was ND with an RL of 0.50 ug/L,
- Toluene was detected at 0.90 ug/L with an RL of 0.50 ug/L,
- Ethylbenzene was detected at 1.6 ug/L with an RL of 0.50 ug/L, and
- Total Xylenes were detected at 1.8 ug/L with an RL of 1.0 ug/L.

For FOx:

- MTBE was ND with an RL of 0.50 ug/L,
- TAME was ND with an RL of 0.50 ug/L,
- ETBE was ND with an RL of 0.50 ug/L,
- DIPE was ND with an RL of 1.0 ug/L,
- TBA was ND with an RL of 5.0 ug/L,
- EDB was ND with an RL of 0.50 ug/L, and
- 1,2-DCA was ND with an RL of 0.50 ug/L.

Borehole B-6 Groundwater (sample B6-W)

Analytical results indicated that:

For PHCs:

- DRO was detected at 250 ug/L with an RL of 50 ug/L,
- GRO was detected at 360 ug/L with an RL of 50 ug/L, and
- MORO was ND with an RL of 500 ug/L.

For Aromatics:

- Benzene was ND with an RL of 0.50 ug/L,
- Toluene was ND with an RL of 0.50 ug/L,
- Ethylbenzene was detected at 0.6 ug/L with an RL of 0.50 ug/L, and
- Total Xylenes were ND with an RL of 1.0 ug/L.

- MTBE was ND with an RL of 0.50 ug/L,
- TAME was ND with an RL of 0.50 ug/L,
- ETBE was ND with an RL of 0.50 ug/L,
- DIPE was ND with an RL of 1.0 ug/L,
- TBA was ND with an RL of 5.0 ug/L,
- EDB was ND with an RL of 0.50 ug/L, and
- 1,2-DCA was ND with an RL of 0.50 ug/L.



OBSERVATIONS, CONCLUSIONS, AND RECOMMENDATIONS

OBSERVATIONS

SOIL ISSUES

GRO, DRO⁷, Ethylbenzene, Xylenes, and MTBE were found in the soil samples. The residential soil ESL (rESL) for DRO and GRO is 83 mg/kg, the rESL for Ethylbenzene is 2.3 mg/kg, the rESL for total Xylenes is 2.3 mg/kg, and the rESL for MTBE is 0.023 mg/kg. Figures 6 through 8 illustrate the relationship between all six boreholes installed between 2005 and 2008. Figure 6 shows the plan view and cross-section line, Figure 7 illustrates the GRO contours in the soil, and Figure 8 illustrates the sample locations and results for GRO.

BOREHOLE B-4

GRO was detected above the rESL in sample B4-7 at 270 mg/kg. All other compounds were ND or below their rESLs in all other analysis at this depth and subsequent depths in this boring.

BOREHOLE B-5

GRO was detected above the rESL in sample B5-7 at 150 mg/kg, and in sample B5-15 at 220 mg/kg. All other compounds were ND or below their rESLs in all other analysis at these two depths and subsequent depths in this boring.

BOREHOLE B-6

GRO was detected above the rESL in sample B6-8 [5.66 fbg] at 430 mg/kg. All other compounds were ND or below their rESLs in all other analysis at this depth and subsequent depths in this boring.

GROUNDWATER ISSUES

GRO, DRO, Benzene, Ethylbenzene, and Xylenes, were found in the grab groundwater samples. The groundwater ESL (gwESL) for DRO and GRO is 100 ug/L, the gwESL for Benzene is 1.0 ug/L, the gwESL for Ethylbenzene is 30 ug/L, and the gwESL for total Xylenes is 20 ug/L. Figures 9 and 10 illustrate all six boreholes and their grab groundwater results for GRO. Figure 9 illustrates the borehole positions and GRO results, while Figure 10 shows the GRO results in cross-section. Figures 11 and 12 illustrate the recent three boreholes and their grab groundwater results, while Figure 12 shows the DRO results in cross-section.

⁷ According to the client, diesel was never stored on-site either underground or aboveground.



SAMPLE B4-W

DRO was detected above the gwESL at 340 ug/L, GRO was detected above the gwESL at 1200 ug/L, and Benzene was detected above the gwESL at 4.0 ug/L. All other compounds were ND or below their gwESLs.

SAMPLE B5-W

DRO was detected above the gwESL at 560 ug/L, and GRO was detected above the gwESL at 4600 ug/L. All other compounds were ND or below their gwESLs.

SAMPLE B6-W

DRO was detected above the gwESL at 250 ug/L, and GRO was detected above the gwESL at 360 ug/L. All other compounds were ND or below their gwESLs.

CONCLUSIONS

While some of the results from specific samples, directed by EHS for analysis, were numerically above groundwater ESL, the Agency clearly understands that groundwater results taken by "grab samples" from a soil sampling hole are used only as indicators and can not be used as a definitive finding of groundwater quality. The drive-sampling technique by definition pushes into the soil smearing organic containing clays and silts deeper into the hole and there is no sand pack or well volume purging, etc. to allow sampling of formation water. Overall, the soil did not show contamination greater than the results that were seen in 2005 and do not rise to the concentration needed to create the groundwater contamination seen. As for groundwater, the highest detections were on the western side of the study area in borings B4 and B5. The B6 results were consistent with B3 from 2005. These "grab samples" should be considered in the context that several orders of magnitude pollutant concentrations were not documented and other source contributors should be considered due to the locations of these samples⁸.

Soil

The only compound found in the soil above its rESL is GRO. It was detected above the rESL at 7 fbg in B4, 7 fbg and 15 fbg in B5, and 5.66 fbg in B6. The soil from the vicinity of Tankpit #1 (TP#1) indicated exactly what we suggested it would "ND" below 11 fbg. In fact, the only detection in B6 that was above its rESL was at 5.66 fbg, which is not within TP#1.

There are sporadic detections of GRO in B3, B4, B5, and B6, but other than the 15-fbg detection in B5, all the detections of concern are above 7.5 fbg.

 $^{^{8}}$ Since diesel was not stored on-site, its origin needs to be determined as it came from off-site, and may have brought other pollutants with it.



GROUNDWATER

DRO and GRO were detected in groundwater above their gwESLs in all three borings. Benzene was detected above its gwESL in groundwater from B4, but not B5 or B6. No other compounds were detected above their gwESLs in B4, B5, or B6.

The highest detections of GRO in groundwater occur on the western side of the study area, and they are lower as you move east in the study area. This indicates that something other than the two tankpits along the eastern side of the study area are a contributory source to the contamination found in the groundwater.

These data are offered to EHS to be considered in their soil and groundwater investigations on the parcels to the west or south of this property. The groundwater flow direction can only be a qualified assumption, based on ACPWA discussions with TCG. Tidal influence affects are known to affect groundwater flow directions at these elevations around SF Bay and these directions may change seasonally. The TCG assumption was: groundwater flows northerly, but 0.9 miles (4920 ft) to the west is the inner harbor and 0.15 miles (798 ft) to the south is the canal/stream that runs into the inner harbor. Both of these are considered by TCG as potential influences on localized groundwater flow direction.

RECOMMENDATIONS

The two tankpits could have been contributors to groundwater pollution in the past, but approved remedial actions have been taken such as tank removal, and the amount of soil pollution detected on-site between 2005 and 2008 is not sufficient to be the only contributor to the groundwater pollution detected (recognizing the water quality limitations of the recent "grab samples").

With this in mind, site closure is justified due to:

- 1. Source on-site has been removed,
- 2. Natural-degradation of these petroleum-based compounds has been shown to work at sites in the Bay Area and has been recommended for sites of low-risk⁹,
- 3. This is a low risk site as the shallow groundwater is brackish and cannot be used for drinking water
- 4. The area has been capped (a routinely approved site mitigation tool) with a barrier (concrete) thereby retarding the percolation of surface water from rainfall,
- 5. When you consider the beneficial uses of this water: Agriculture is not to be supported by this small volume of water; marine life is likely not to be harmed due to the concentrations and soil pathway to the Bay, or as drinking water, it is restricted by sanitary and treatment regulatory requirements, and

⁹ LLNL Reports, 1995.



6. Therefore, a rational interpretation for the protection of beneficial uses of waters of the State has been stated by others in Senate Bill 1764 Advisory Committee Recommendations Report¹⁰ which would urge closure to allow Agency resources to be directed higher risk sites.

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- _____, 2008, *Revised Workplan for Additional Drive-Sampling & Analysis* at 50 Hegenberger Loop, Oakland, California, 30 October 2008.

CERTIFICATION AND LIMITATION

This report has been prepared by the staff of The Consulting Group (TCG) under the supervision of our registered engineer whose stamp and signature appear below.

This report has been prepared by TCG for the exclusive use of TCG and W. E. Lyons (client) and not for use by any other party. Any use by a third party of any of the information contained in this report shall be at their own risk and shall constitute a release and an agreement to defend and indemnify TCG from and against any and all liability in connection therewith whether arising out of TCG's negligence or otherwise.



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The results and findings contained in this report are based on certain information from sources outside the control of TCG. While exercising all reasonable diligence in the acceptance and use of information provided, TCG does not warrant or guarantee the accuracy thereof. The report was developed specifically for this project (50 Hegenberger Loop, Oakland, California) and should not be used for any other site.

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TCG appreciates this opportunity to be of service to you and looks forward to working with you on this project. Please feel free to contact us at **415.381.2560** regarding any questions you may have concerning this proposal.

Sincerely, THE CONSULTING GROUP

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Distribution:

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2 - Petroleum Hydrocarbon Analytical Results – Boring B5 3 - Petroleum Hydrocarbon Analytical Results – Boring B6 Figures: 1 - Site Location Map 2 - Site Location w/ Boring Locations 3 - Determining Final Depth and Location for B-6 4 - Determining B-6 Location 5 - Determining B-6 Location 6 - GRO Soil Sample Contour - Concentrations in Plan View 7 - GRO Soil Sample Contour - Concentrations in Cross Sectional View 8 - GRO Individual Soil Sample - Concentrations in Cross Sectional View

Tables:

- 9 GRO Water Sample Contour Concentrations in Plan View
- 10 GRO Water Sample Contour Concentrations in Cross Sectional View
- 11 DRO Water Sample Contour Concentrations in Plan View

1 - Petroleum Hydrocarbon Analytical Results - Boring B4

12 - DRO Water Sample Contour - Concentrations in Cross Sectional View

Attachments 1 - Selected Standard Operating Procedures

- 2 Boring Permit and Boring Logs
- 3 Laboratory Results and COC Forms



<u>TABLES</u>

Date Constituent	B4-4 30-Dec-08 4.00 Soil	B4-7 30-Dec-08 7.00	B4-10 30-Dec-08 10.00	Sample # B4-11.5 30-Dec-08	B4-15 30-Dec-08	B4-18 30-Dec-08	B4-W
Depth (ft) Matrix	30-Dec-08 4.00	30-Dec-08	30-Dec-08	B4-11.5	-		
Depth (ft) Matrix	4.00			30-Dec-08	30-Dec-08	30-Dec-08	
Matrix		7.00	10.00			30-Dec-00	12/31/08
	Soil		10.00	11.50	15.00	18.00	N/A
Constituent		Soil	Soil	Soil	Soil	Soil	Water
		Р	etroleum Hydrod	carbons (mg/kg -	soil) (ug/L - wate	r)	
GRO	0.93	270	ND(0.24)	21	9.9	ND(0.23)	1200
DRO	130	26	1.9			ND(1)	340
MORO ND(D(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(500)
Oil & Grease NA	N (NA	NA	NA	NA	NA	NA
Toluene ND(0(0.0049)	ND(0.96) ND(0.96)	ND(0.0048) ND(0.0048)	ND(0.023)	ND(0.022)	ND(0.0047) ND(0.0047)	ND(0.5)
Ethyl-benzene ND(0(0.0049)	ND(0.96)	ND(0.0048)	0.11	0.05	ND(0.0047)	28
Total Xylenes		ND(1.9)	ND(0.0096)			ND(0.0093)	1.5
	· /	ND(0.96)	ND(0.0048)	· /		ND(0.0047)	ND(0.5)
		ND(1.9)	ND(0.0096)			ND(0.0093)	ND(5)
		ND(0.96)	ND(0.0048)			ND(0.0047)	ND(1)
		ND(0.96)	ND(0.0048)	· · · · ·		ND(0.0047)	ND(0.5)
		ND(0.96)	ND(0.0048)	· · · · ·		ND(0.0047)	ND(0.5)
	0(0.0049)	ND(0.96)	ND(0.0048)	ND(0.023)	ND(0.022)	ND(0.0047)	ND(0.5)
		ND(0.96)	ND(0.0048)		ND(0.022)	ND(0.0047)	ND(0.5)

P

Clo		TCGProject #	085101				
		1	1	Sample #			
	B5-4	B5-7	B5-13	B5-15	B5-19	B5-20	B5-W
Date	12/30/08	12/30/08	12/30/08	12/30/08	12/30/08	12/30/08	31-Dec-08
Depth (ft)		7	13	15	19	20	N/A
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Water
Constituent		Pet	roleum Hydroc	arbons (mg/kg -	soil) (ug/L - wa	ater)	
GRO	0.4	150	0.48	220	ND(0.24)	ND(0.24)	460
DRO	ND(1)		ND(1)	3.1			
MORO	ND(50)	ND(50)	ND(50)	-	ND(50)		ND(500)
Oil & Grease							
			NA	NA	NA	NA	NA
			atics & Fuel Ox	xygenates (mg/k	g - soil) (ug/L -	water)	
Benzene	ND(0.0047)	ND(0.99)	atics & Fuel Ox ND(0.0049)	ygenates (mg/k	g - soil) (ug/L - ND(0.0048)	water)	ND(0.5)
Benzene Toluene	ND(0.0047)	ND(0.99) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049)	xygenates (mg/k ND(0.99) ND(0.99)	g - soil) (ug/L - ND(0.0048) ND(0.0048)	water) ND(0.0048) ND(0.0048)	ND(0.5) 0
Benzene Toluene Ethyl-benzene	ND(0.0047) ND(0.0047)	ND(0.99) ND(0.99) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048)	water) ND(0.0048) ND(0.0048) ND(0.0048)	ND(0.5) 0 1
Benzene Toluene Ethyl-benzene Total Xylenes	ND(0.0047) ND(0.0047) ND(0.0094)	ND(0.99) ND(0.99) ND(0.99) ND(2)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99) ND(2)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097)	ND(0.5) 0 1 1
Benzene Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047)	ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098) ND(0.0049)	ND(0.99) ND(0.99) ND(0.99) ND(0.99) ND(2) ND(2) ND(0.99)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048)	ND(0.5) 0 1 1 ND(0.5)
Benzene Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094)	ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098) ND(0.0049) ND(0.0098)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99) ND(2) ND(2) ND(2) ND(2)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097)	ND(0.5) 0 1 1 ND(0.5) ND(5)
Benzene Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094) ND(0.0094)	ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2) ND(2) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098) ND(0.0049) ND(0.0098) ND(0.0098) ND(0.0049)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99) ND(2) ND(2) ND(0.99) ND(2) ND(2)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048)	ND(0.5) 0 1 1 ND(0.5) ND(5) ND(1)
Benzene Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE) Ethyl tert-Butyl Ether (ETBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0047)	ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2) ND(2) ND(0.99) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098) ND(0.0049) ND(0.0098) ND(0.0049) ND(0.0049)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2) ND(2) ND(0.99) ND(0.99)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0048)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0048)	ND(0.5) 0 1 1 ND(0.5) ND(5) ND(1) ND(0.5)
Benzene Toluene	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094) ND(0.0094)	ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2) ND(2) ND(0.99)	atics & Fuel Ox ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0098) ND(0.0049) ND(0.0098) ND(0.0098) ND(0.0049)	xygenates (mg/k ND(0.99) ND(0.99) ND(0.99) ND(2) ND(0.99) ND(2) ND(2) ND(0.99) ND(0.99)	g - soil) (ug/L - ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048)	water) ND(0.0048) ND(0.0048) ND(0.0048) ND(0.0097) ND(0.0048) ND(0.0097) ND(0.0048)	ND(0.5) 0 1 1 ND(0.5) ND(5) ND(1)

Notes:

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W-1 = sample desgignation ND = not detected (method detection limit)

Results in micrograms per liter (ug/L) NA = not analyzed

N/A = not applicable

Bold = detection

Bold Italics = >ESL

1/28/09

Petro-Aro-FO-LUFT.xls

			gram, 50 Hegenb	er Sampling and Ar erger Loop, Oaklaı ect #085101				
				Sa	mple #			
	B6-1.5	B6-8	B6-12	B6-16	B6-20	B6-24	B6-28	B6-W
Date	e 30-Dec-08	30-Dec-08	30-Dec-08	30-Dec-08	31-Dec-08	31-Dec-08	31-Dec-08	31-Dec-08
Depth (ft	1.06	5.66	8.49	11.31	14.14	16.97	19.8	N/A
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water
Constituent								
			Petrole	um Hydrocarbons	(mg/kg - soil) (ug/	L - water)		
GRO	0.28			ND(0.24)	ND(0.24)	ND(0.24)	ND(0.25)	36
DRO	1.9	12	2.3	1.1	2.2	2 ND(1)	ND(1)	25
MORO	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(500)
Oil & Grease	NA	NA	NA	NA	NA	NA	NA	NA
				& Fuel Oxygenate	· · ·			
_	ND(0.0047)		ND(0.0048)	ND(0.0048)	ND(0.0047)	ND(0.0048)	ND(0.0049)	ND(0.5)
				ND(0.0048)	ND(0.0047)	ND(0.0048)	ND(0.0049)	ND(0.5)
Toluene	ND(0.0047)		ND(0.0048)	· · · ·		· · · ·		
Toluene Ethyl-benzene	ND(0.0047) ND(0.0047)	ND(0.95)	ND(0.0048)	ND(0.0048)	ND(0.0047)	ND(0.0048)	ND(0.0049)	0.
Toluene Ethyl-benzene Total Xylenes	ND(0.0047) ND(0.0047) ND(0.0094)	ND(0.95) ND(1.9)	ND(0.0048) ND(0.0095)	ND(0.0048) ND(0.0096)	ND(0.0047) ND(0.0095)	ND(0.0048) ND(0.0096)	ND(0.0099)	0. ND(1)
Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047)	ND(0.95) ND(1.9) ND(0.95)	ND(0.0048) ND(0.0095) ND(0.0048)	ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0047) ND(0.0095) ND(0.0047)	ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0099) ND(0.0049)	0. ND(1) ND(0.5)
Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094)	ND(0.95) ND(1.9) ND(0.95) ND(1.9)	ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0095)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096)	ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0095)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096)	ND(0.0099) ND(0.0049) ND(0.0099)	0. ND(1) ND(0.5) ND(5)
Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) ert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0094)	ND(0.95) ND(1.9) ND(0.95) ND(1.9) ND(0.95)	ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0095) ND(0.0048)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0095) ND(0.0047)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0099) ND(0.0049) ND(0.0099) ND(0.0049)	0. ND(1) ND(0.5) ND(5) ND(1)
Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE) Ethyl tert-Butyl Ether (ETBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094) ND(0.0094) ND(0.0094) ND(0.0047) ND(0.0047)	ND(0.95) ND(1.9) ND(0.95) ND(1.9) ND(0.95) ND(0.95)	ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0048)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0048)	ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0047)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0048)	ND(0.0099) ND(0.0049) ND(0.0099) ND(0.0049) ND(0.0049)	0. ND(1) ND(0.5) ND(5) ND(1) ND(0.5)
Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE) Ethyl tert-Butyl Ether (ETBE)	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0047) ND(0.0047) ND(0.0047) ND(0.0047) ND(0.0047)	ND(0.95) ND(1.9) ND(0.95) ND(1.9) ND(0.95) ND(0.95)	ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0095) ND(0.0048)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0095) ND(0.0047)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048)	ND(0.0099) ND(0.0049) ND(0.0099) ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0049) ND(0.0049)	0 ND(1) ND(0.5) ND(5) ND(1)
Benzene Toluene Ethyl-benzene Total Xylenes Methyl tert-Butyl Ether (MTBE) tert-Butyl Alcohol (TBA) Di-isopropyl Ether (DIPE) Ethyl tert-Butyl Ether (ETBE) tert-Amyl methyl ether (TAME) 1,2-DCA	ND(0.0047) ND(0.0047) ND(0.0094) ND(0.0047) ND(0.0094) ND(0.0094) ND(0.0094) ND(0.0047) ND(0.0047)	ND(0.95) ND(1.9) ND(0.95) ND(1.9) ND(0.95) ND(0.95) ND(0.95)	ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0095) ND(0.0048) ND(0.0048)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0048)	ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0095) ND(0.0047) ND(0.0047)	ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0096) ND(0.0048) ND(0.0048)	ND(0.0099) ND(0.0049) ND(0.0099) ND(0.0049) ND(0.0049)	0. ND(1) ND(0.5) ND(5) ND(1) ND(0.5)

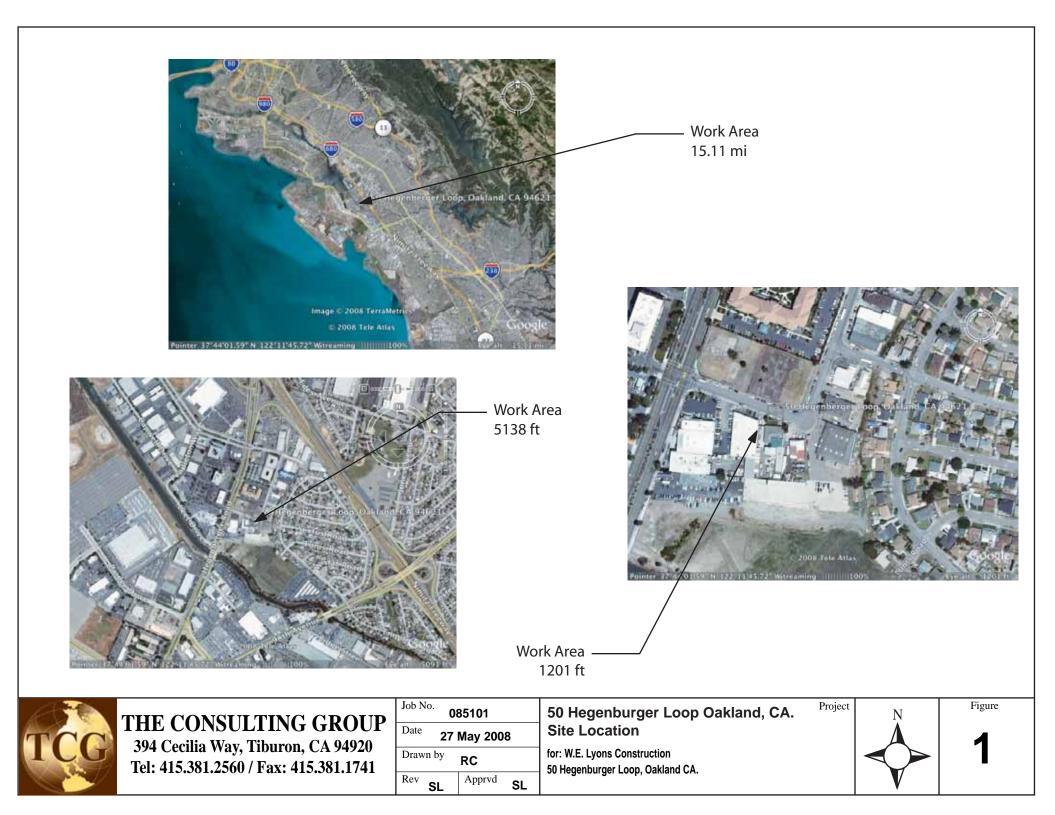
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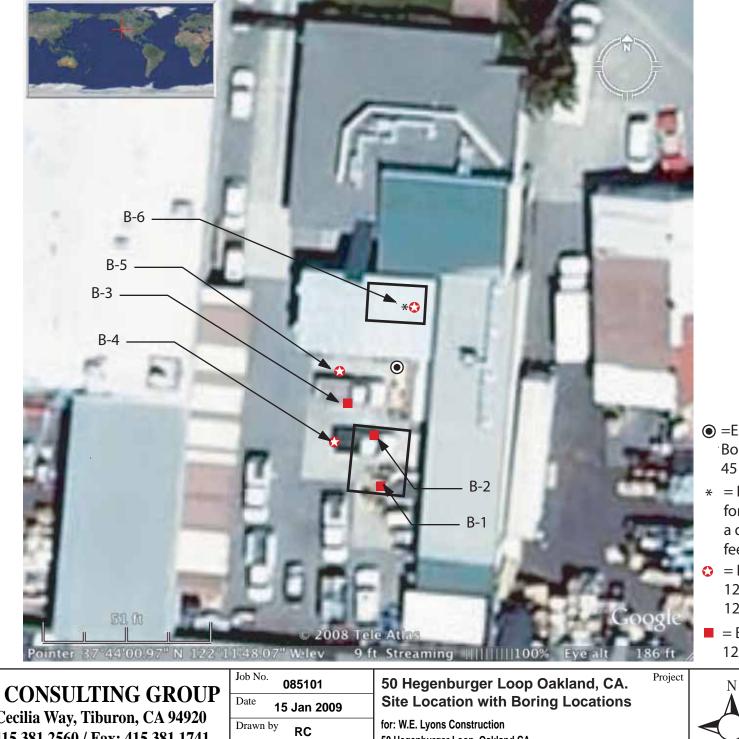
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2EX-1 = sample desgignation ND = not detected (method detection limit) Results in milligrams per kilogram (mg/kg) NA = not analyzed **Bold = detection** Bold Italics = >ESL



FIGURES





- =Enrty point for Borehole B-6 (dug @ 45 degree angle) * = Final location
- for Borehole B-6@ a depth of 19.8 feet below grade
- = Borehole dug 12/30/08 and 12/31/08
- Borehole dug 12/6/05

Figure

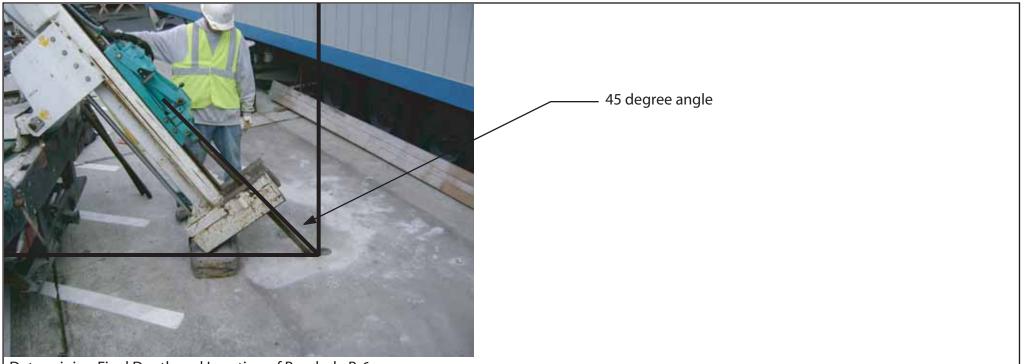
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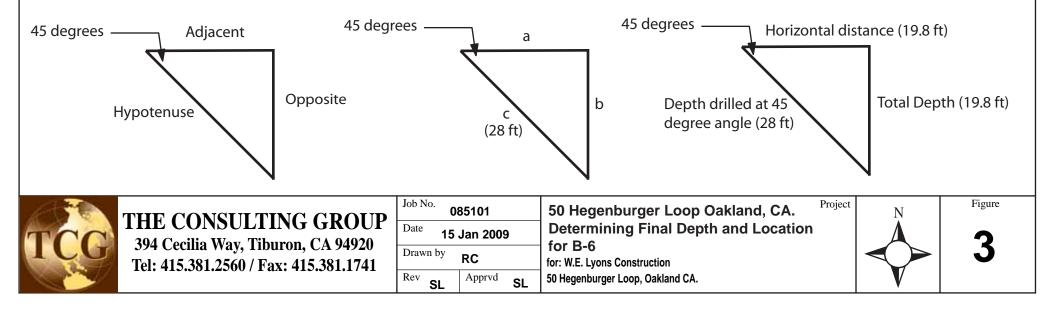
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Da	^{ie} 15	Jan 2009)			
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Re	SL	Apprvd	SL			

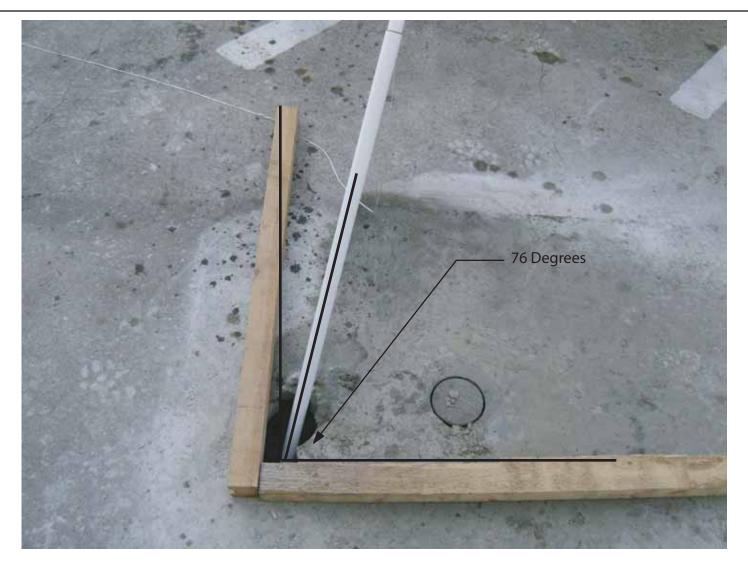
50 Hegenburger Loop, Oakland CA.



Determining Final Depth and Location of Borehole B-6

In order to determine the final depth and location of B-6, TCG used the following equations : Sine of the angle is equal to the Opposite over the Adjacent and a squared plus b squared = c squared. In this case B-6 was drilled at a 45 degree angle for 28 feet. Using the first equation and the fact the Sine of 45 degrees is = to 0.071 and the depth at this angle was drilled 28 feet, we determined the total depth to be 19.8 feet. Using this answer and the second equation we determined the horizontal distance from the drill point to be 19.8 feet.





Determining the horizontal angle from the entry point for Borehole B-6.



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Is Jan 2009 Determining D e Lecturining Jorawn by For: W.E. Lyons Construction Drawn by RC Rev SL Apprvd SL	P	RC Rev Apprvd -		Project		Figure	
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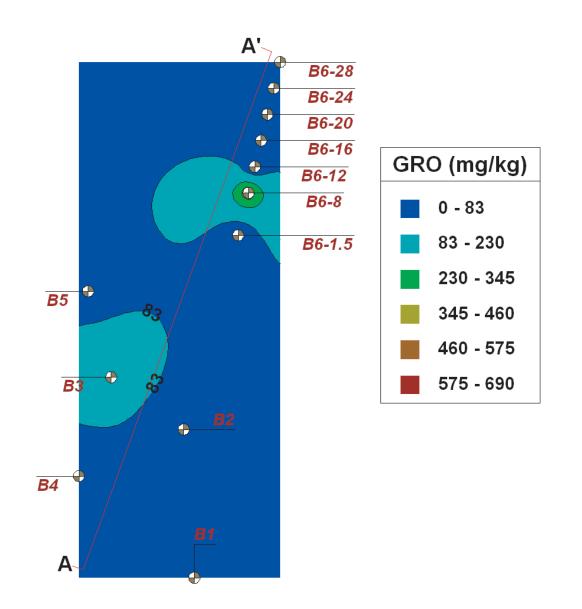


Final location for Borehole B-6 @ final depth of 19.8 feet below grade



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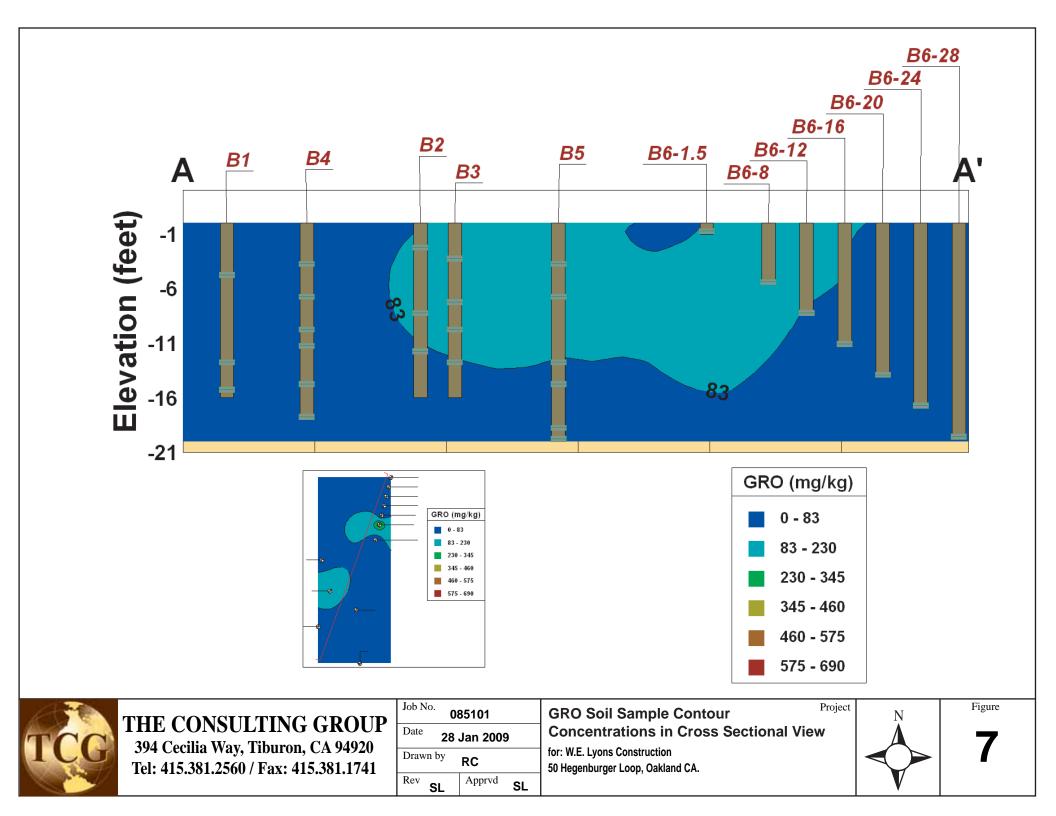
Job No. 085101 Date 15 Jan 2009 Drawn by RC Rev SI	50 Hegenburger Loop Oakland, CA. Determining B-6 Location for: W.E. Lyons Construction 50 Hegenburger Loop, Oakland CA.	Project	N	Figure 5
SL SL SL			V	

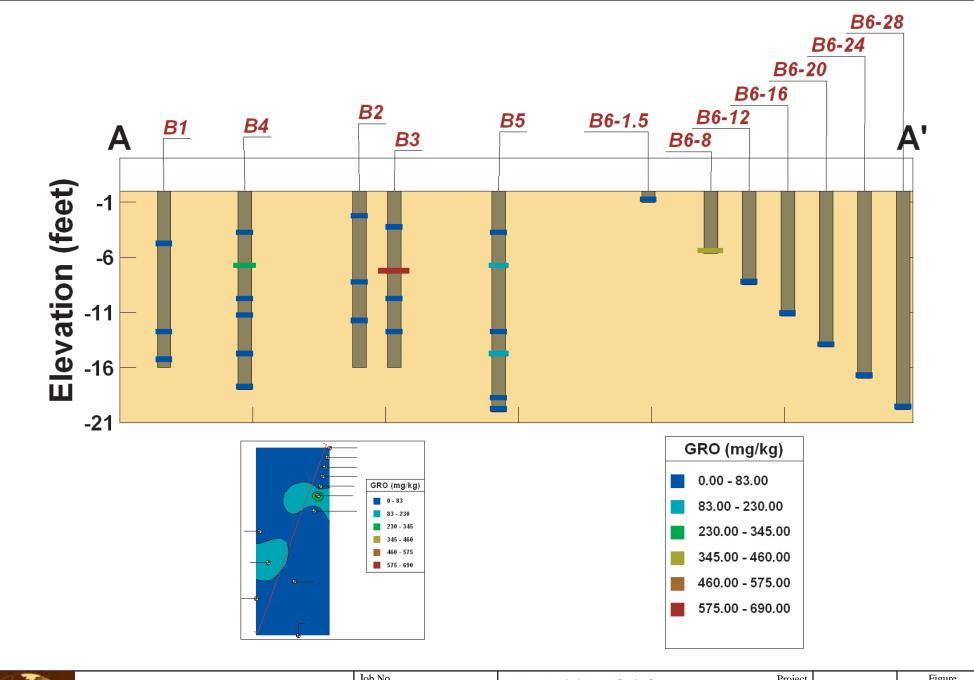




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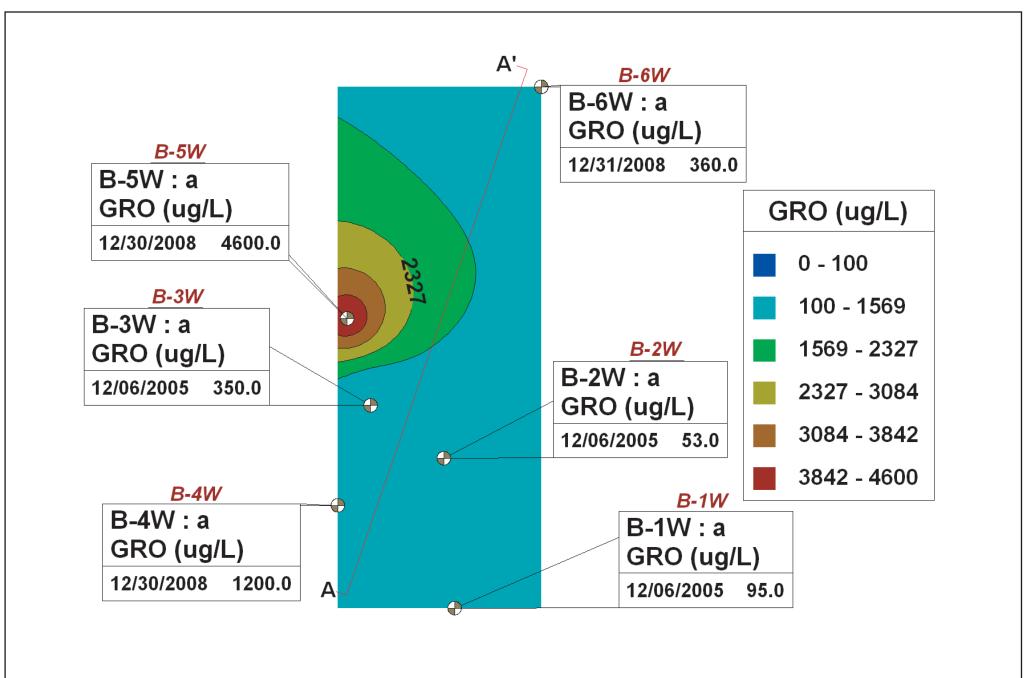
OUP	Data	85101 Jan 2009)	GRO Soil Sample Contour Concentrations in Plan View	Project	N	Figure	•
020 741	Drawn by	RC		for: W.E. Lyons Construction 50 Hegenburger Loop, Oakland CA.			Ö	
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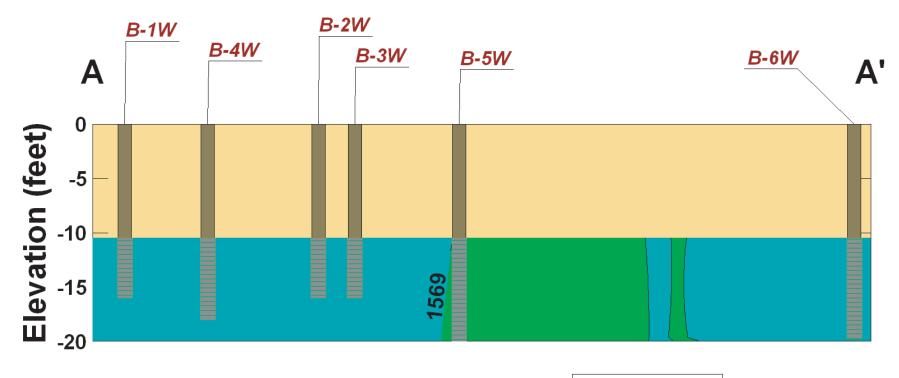
THE CONSULTING GROUP	-	85101		GRO Individual Soil Sample	Ν	Figure
394 Cecilia Way, Tiburon, CA 94920 Tel: 415.381.2560 / Fax: 415.381.1741	Drawn by	Jan 2009 RC		Concentrations in Cross Sectional View for: W.E. Lyons Construction 50 Hegenburger Loop, Oakland CA.		8
	Rev SL	Apprvd SI	L		V	

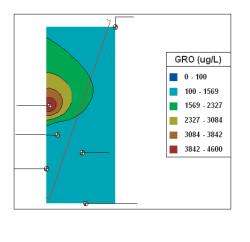




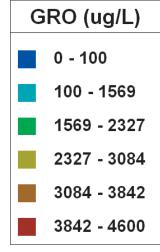
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Tel: 415.381.2560 / Fax: 415.381.1741
394 Cecilia Way, Tiburon, CA 94920

Job No. Project Figure 085101 **GRO Water Sample Contour Concentrations in Plan View** Date 28 Jan 2009 9 for: W.E. Lyons Construction Drawn by RC 50 Hegenburger Loop, Oakland CA. Rev Apprvd SL SL





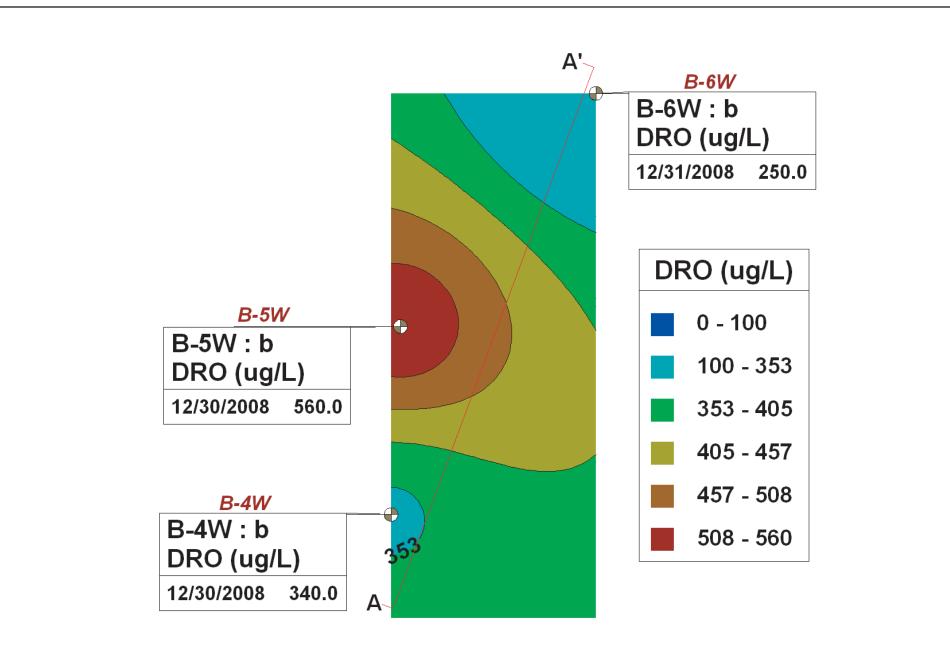
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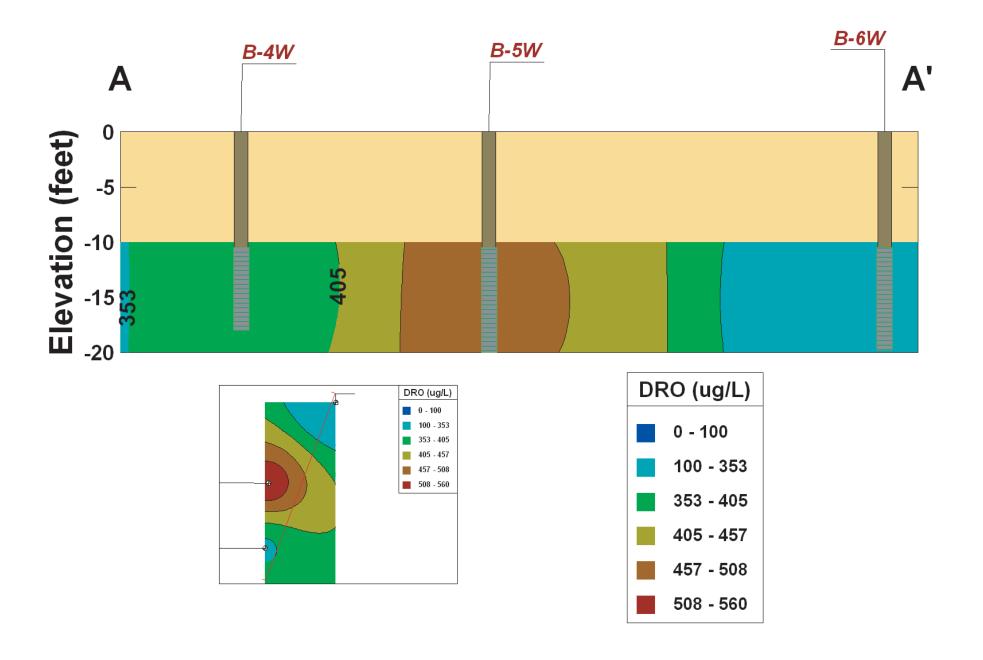
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THE CONSULTING GROUP 394 Cecilia Way, Tiburon, CA 94920	Date 2
Tel: 415.381.2560 / Fax: 415.381.1741	Drawn by
	Rev ei

). 0 8	85101	GRO Water Sample Contour Project	N	Figure
28	Jan 2009	Concentrations in Cross Sectional View	Â	10
by	RC	for: W.E. Lyons Construction 50 Hegenburger Loop, Oakland CA.		IU
SL	Apprvd SL			





THE CONSULTING GROUP	Data	35101 Jan 2009	DRO Water Sample Contour Concentrations in Plan View	Project	N	Figure
394 Cecilia Way, Tiburon, CA 94920 Tel: 415.381.2560 / Fax: 415.381.1741	D 1	RC Apprvd SL	for: W.E. Lyons Construction 50 Hegenburger Loop, Oakland CA.			11





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THE CONSULTING GROUP	Date 2	8 Jan 20
394 Cecilia Way, Tiburon, CA 94920 Tel: 415.381.2560 / Fax: 415.381.1741	Drawn by	RC
	Rev SL	Apprvo

 1
 DRO Water Sample Contour
 Project

 2009
 Concentrations in Cross Sectional View
 N

 for: W.E. Lyons Construction
 50 Hegenburger Loop, Oakland CA.
 I



ATTACHMENT 1



SOP 2b – SOIL & GRAB GROUNDWATER SAMPLING WITH GEOPROBE®

Soil samples for chemical analysis are collected in thin-walled Butyrate tubes. The tubes are 4 feet long by 2-inch diameter. The 4-foot core is reviewed and the location of a soil sample is selected by visual observation and photo-ionization detection (PID).

One soil sample collected at each sampling interval is analyzed in the field using a photo ionization detector (PID), a flame ionization detector (FID), or an explosion meter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons or halocarbons and to help establish which soil samples will be analyzed at the laboratory. The soil sample is sealed in a zip-lock plastic bag and placed in the sun to enhance volatilization of any hydrocarbons in the sample. The data is recorded on drill logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the lithology and stratigraphy and estimate the relative permeability of the subsurface materials. All drive-sampling equipment are steam-cleaned before use at each site and between holes on-site to minimize the potential for cross-contamination.

The sampling equipment consists of Teflon® or steam-cleaned PVC bailer. Forty-milliliter (ml) glass volatile-organic-analysis (VOA) vials, with Teflon septa, are used as sample containers for volatile organic compound (VOC) analysis. For other analyses, the appropriate EPA-approved sampling containers are used.

The groundwater sample is decanted into each preserved VOA vial in such a manner that there is a meniscus at the top of the vial. The cap is quickly placed over the top of the vial and securely tightened. The VOA vial is then inverted and tapped to see if air bubbles are present. If none are present, the sample is labeled and refrigerated for delivery under chain-of-custody to the laboratory. Label information should include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

A trip blank is prepared at the laboratory and placed in the transport cooler. It remains with the cooler and is placed on hold pending any anomalous results. A field blank is prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer used in a well is steam-cleaned, before use in a second well, and is analyzed along with the other samples. The field blank demonstrates the quality of in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all the well purging and water sampling equipment that is not dedicated to a well is triple-rinsed between each well. As a second precautionary measure, samples are collected in order of least to highest concentrations as established by previous analyses.



All the soil is put in DOT-approved drums (drilling cuttings) for storage pending analytical results. Once results are available, soil disposal is determined. The soil is disposed of at the appropriate landfill(s) or re-used according to State, regional and/or local requirements.

Drive-sample holes that will not be completed as monitoring wells are destroyed, following the guidelines of the State of California Department of Water Resources Bulletin 74-90, and any local guidelines or regulations.



SOP-8 - LIQUID LEVEL GAUGING USING WATER LEVEL METER OR INTERFACE PROBE

The complete list of field equipment for liquid level gauging is assembled in the Technical office prior to departure to the field. This includes the probe(s), light filter(s), and product bailer(s) to be used for liquid levels (tested in test well before departure). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to clean the equipment between gauging wells.

When using the water level probe to gauge liquid levels, the probe tip is lowered into the well until the unit sounds. The top-of-casing (TOC) point is determined. This point is marked with a dot or a groove, is an obvious high point on the casing, or is the north side of the casing. The place on the probe-cord that corresponds with this TOC point is marked and an engineer's tape is used to measure the distance between the probe end and marking on the cord. This measurement is then recorded on the liquid level data sheet as depth to water (DTW).

When using the interface probe to gauge liquid levels, clamping it to the metal stovepipe or another metal object nearby first grounds the probe. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case. After grounding the probe, the top of the well casing is fitted with a light filter to insure that sunlight does not interfere with the operation of the probe's optical mechanisms. The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates that the probe is in water. The probe is slowly raised either until the oscillating tone ceases or becomes a solid tone. In either case, this is the depth-to-groundwater (DTW) measurement. The solid tone indicates that floating hydrocarbons are present on top of the groundwater. To determine the thickness of the floating hydrocarbons, the probe is slowly raised until the solid tone ceases. This is the depth-to-floating hydrocarbon (DTFH) measurement. The process of lowering and raising the probe must be repeated several times to insure accurate measurements. DTW and DTFH measurements are recorded in hundredths of feet on the liquid level data sheet. When floating hydrocarbons are found in a well, a bottom-loading product bailer must be lowered partially through the water/liquid hydrocarbon interface to confirm the thickness of floating hydrocarbons on the water surface. This measurement is recorded on the data sheet as liquid hydrocarbon thickness (PT).

In order to avoid cross contamination of wells during the liquid level gauging process, wells are gauged in a clean to dirty order (where this information is available). In addition, any gauging equipment is cleaned with TSP and water and thoroughly rinsed with deionized water before daily use, before gauging another well on a site, and at the completion of daily use.



SOP-10 - SAMPLE LABELING & CHAIN-OF-CUSTODY

To ensure correct analysis and integrity of any sample, correct sample labeling and the accompaniment of a chain-of-custody (COC) form with all samples from the field to the designated analytic laboratory is mandatory. The label of a sample must include, at a minimum, the following items:

- Sample identification number
- Location of sample collection
- Date and time of sample collection
- Name of sampler
- Analysis required

Once this data has been put on the sample container, it must be transferred to the COC. A COC accompanies every shipment of samples and establishes the documentation necessary to trace sample possession, as well as evidence of collection, shipment, laboratory receipt, analysis requested and laboratory custody until the time of disposal. The COC form must include, at a minimum, the following items:

- Sample identification number
- Location of sample collection
- Date and time of sample collection
- Analysis required
- Sample type
- Sample container type
- Preservative used, if any
- Names of all samplers
- Signatures of personnel relinquishing and receiving samples
- Laboratory name and address
- Laboratory sample number and log number (recorded by laboratory personnel)
- Company contact name and project number
- Sample condition and temperature (recorded by laboratory personnel)

Sample transfer and shipment is always accompanied by a COC. The initial preparation of the COC occurs in the office and completed in the field by the personnel collecting the samples. Each sample is assigned a unique identification number that represents the specific sampling location. The identification numbers are entered on the COC accompanied by the requested analysis, preservative used, if any, type of sample collected, and type of sample container. Any special instructions are included here.

If the field personnel deliver the samples to the laboratory, they will at that time sign the COC form and relinquish the samples. At this point, the Quality Control Coordinator, or the representative for the laboratory, will check to make sure all samples are present and note the



condition and integrity of each sample. After all samples have been documented as received by the laboratory personnel, they will sign the COC form and issue the delivering personnel a copy. The laboratory with the analytic data report should also return a copy of the signed COC form.

If the samples are delivered by courier, or other commercial carrier, the container of samples shall be sealed, and a custody tape will be applied to the container to seal it and to signal any tampering with the container. The courier will sign the COC taking ownership of the samples that the samplers have relinquished by also signing the COC. The receipt form the courier will be attached to the COC copy retained by the relinquishing personnel and serve as an extension of the COC.

Any changes to a COC must be initialed and copies of the revised COC must be distributed to all appropriate personnel.



ATTACHMENT 2

Subject: Alameda County PWA Permits Application Confirmation
 Date: Monday, December 15, 2008 2:54 PM
 From: wells@acpwa.org
 To: <slovejoyjr@tcg-international.com>
 Conversation: Alameda County PWA Permits Application Confirmation

Thank you for your Permit Application. Your Application Confirmation Id is: 1229381645842 Submit Date is: Mon Dec 15 14:54:05 PST 2008 Project Site City/Location: Oakland / 50 Hegenberger Loop Project Start Date: 12/30/2008 Completion Date: 12/30/2008 Requested Inspection Date: 12/30/2008

NOTE: This only confirms receipt of the application, this is NOT an approved Permit.

REMINDER: We must receive a site map from you or your permit will not be approved.

If you have already submitted your site map and required documents, please disregard the reminder.

You will be notified separately once the receipt of your map is logged.

If any required documents are missing, you will be contacted by the Water Resources Unit.

To view application status, go to the Tracking <https://www.acgov.org/ pwapermitsecomm_app/TrackAppServlet?email=slovejoyjr@tcginternational.com&appid=1229381645842> page.

*******If above 'Tracking' link does not work for you, copy and paste this url directly to browser:*

https://www.acgov.org/pwapermitsecomm_app/TrackAppServlet? email=slovejoyjr@tcg-international.com=1229381645842

If you have questions, contact us at wells@acpwa.org, please include your application confirmation number.

Thank you, Public Works Agency - Water Resources

Your Application: **Project Information** City of Project Site: Oakland Site Location: 50 Hegenberger Loop Start Date: 12/30/2008 Completion Date: 12/30/2008 Requested Inspection Date: 12/30/2008 Applicant Information Business / Name: The Consulting Group - Sherwood Lovejoy, Jr. Phone Number: 415-381-1741 x Address: 394 Cecilia Way, PO Box 1369 Tiburon, CA 94920 Work Applying for Permit Work Type Driller # of Wells Fees Cost Borehole(s) for Geo Probes-Sampling 24 to 72 hours only Precision Sampling - Lic# 636387 3 \$ 230.00 per site \$ 230.00 Application Total: \$ 230.00 Subject: Alameda County PWA Wells Permits Application Sitemap Received
 Date: Monday, December 15, 2008 2:55 PM
 From: wells@acpwa.org
 To: <slovejoyjr@tcg-international.com>
 Conversation: Alameda County PWA Wells Permits Application Sitemap
 Received

Your Application Id is: 1229381645842 Application Date is: 12/15/2008 Project at: 50 Hegenberger Loop in 50 Hegenberger Loop Project Start Date: 12/30/2008 Completion Date: 12/30/2008

This email is to confirm that your Sitemap for the above project has been received.

Once your application is processed, you will receive notification via e-mail with the Permit(s) attached. To view application status, go to the Tracking <https://www.acgov.org/pwapermitsecomm_app/TrackAppServlet? email=slovejoyjr@tcg-international.com&appid=1229381645842> page. **If above 'Tracking' link does not work for you, copy and paste this url directly to browser:

https://www.acgov.org/pwapermitsecomm_app/TrackAppServlet? email=slovejoyjr@tcg-international.com=1229381645842

If you have questions, please contact us at wells@acpwa.org with your application id in the subject of the email.

Thank you, Public Works Agency-Water Resources Subject: FW: Alameda County Well Permit Approval Notification
Date: Thursday, December 18, 2008 12:31 PM
From: Ryan Cozart <rcozart@tcg-international.com>
To: Sherwood Lovejoy <slovejoyjr@tcg-international.com>
Conversation: Alameda County Well Permit Approval Notification

----- Forwarded Message
From: <wells@acpwa.org>
Date: Tue, 16 Dec 2008 16:15:02 -0800 (PST)
To: <slovejoyjr@tcg-international.com>
Cc: <rcozart@tcg-international.com>, <ridgerat10@aol.com>, <ridgerat10@aol.com>, <subject: Alameda County Well Permit Approval Notification</pre>

Thank you for your Online Request for Wells Permits. Your Application Id is: 1229381645842 Application submitted on: 12/15/2008 Project Site City/Location: Oakland / 50 Hegenberger Loop Project Start Date: 12/30/2008 Completion Date: 12/30/2008

Your Permit Application has been approved. Permit Number(s) Issued: W2008-0952 Valid from 12/30/2008 to 12/30/2008

Requested Inspection Date: 12/30/2008

You have a tentative inspection scheduled on 12/30/2008 at 1:00 PM.

You must contact your assigned inspector, Vicky Hamlin <mailto:vickyh@acpwa.org> at (510) 670-5443, to confirm.

Attached are 2 PDF files, one serves as your receipt and permit(s), please print for your record.

The other includes the General Conditions and Instructions you must follow.

Note: You need to have the free Adobe Reader <http://www.adobe.com/ products/acrobat/readstep2.html> to open the pdf file.

Conditions of Permit:

Please follow and comply with conditions and instructions listed in the

general conditions document.

In addition, you must comply with all specific conditions listed in your permit.

If you need further assistance regarding your permit, please visit our website at: http://www.acgov.org/pwa/wells/ or contact us at wells@acpwa.org, and include your application id number.

Thank you, Public Works Agency-Water Resources

----- End of Forwarded Message

ROJECI	NO: 085	101			BORING NO: B-4	PROJECT NAME: W.E. Lyons		
DATE BEGAN: 12/30/2008 DRILLER:					DATE FINISHED: 12/30/2008		FIELD GEOLOGIST: Ryan Cozart	
					NORTH:		EAST:	
GROUND	SURFACE	ELEVATION:			GWL DATE/TIME:		GWL DEPTH: 10.5	
RILLING	METHOD:	Drive Samp	ling		DRILL EQUIP: Geoprobe		GWL EQUIP: Visual	
ONTRAC	CTOR: F	Precision Sampl	ling				CHECKED BY: WL	
ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE AND NO.	REC (FT.)	PROFILE	DESCRIPTION	nscs	REMARKS	
0.0 _			1 0.0				- <u> </u>	
					FILL: Baserock fill	CL	Discolored odorous	
		B4-4	4.0	H	SILTY CLAY-TGB: (CL) Green and Tan Silty Clay			
-5.0 —	5.0				CLAY: (CH) Green Clay High Plasticity	СН		
		B4-7	8.0		SAND-G: (SM) Green Sand	SM СН	Discolored	
-100 -	10.0	B4-10 B4-11.5	12.0	+	CLAY: (CH) Green an Black Clay High Plasticity	SM	W ater observed	
			12.0		SILTY SAND-GB: (SM) Green and Gray Silty Sand	SM		
-15.0 —	15.0	B4-15	16.0		SAND-TAN: (SM) Tan and Green Sand	ML		
	6 8	B4-18			CLAYEY SILT-TAN: (ML) Tan and Green Clayey Silt	CL		
					SILTY CLAY-G: (CL) Silty Clay			

PROJECT NO: 085101 DATE BEGAN: 12/30/2008 DRILLER: GROUND SURFACE ELEVATION: DRILLING METHOD: Drive Sampling CONTRACTOR: Precision Sampling					BORING NO: B-5 DATE FINISHED: 12/30/2008 NORTH: GWL DATE/TIME: DRILL EQUIP: Geoprobe		PROJECT NAME: W.E. Lyons FIELD GEOLOGIST: Ryan Cozart EAST: GWL DEPTH: 10.5 GWL EQUIP: Visual CHECKED BY: WL	
ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE AND NO.	REC (FT.)	PROFILE	DESCRIPTION	nscs	REMARKS	
، 0.0 T	_0.0		T ^{0.0}		↓FILL: Baserock fill	1		
-5.0 —	5.0	B5-4 B5-7	4.0		SILTY SAND-GB: (SM) Green Silty Sand SILTY CLAY-GB: (CL) Green Black Silty Clay	сц сн ѕм	Discolored odorous	
-190	10.0		8.0		CLAYEY SILT-GREEN: (ML) Green Tan Clayøy Silt	сн	Water observed	
-15.0 —	15.0	B5-13 B5-15	12.0	нанана Нананан Нананан Нананан Нананан	SILTY CLAY - BLACK: (CL) Green Black Silty Clay SILTY SAND-TAN: (SM) Tan Black Silty Sand	SM SM		
20.0 -	20.0	B5-19 B5-20	20.0		CLAYEY SILT-TAN: (ML) Tan Clayey Silt SILTY CLAY-MB: (CL) Tan Silty Clay			

ATE BEG RILLER: ROUND \$	METHOD:	31/2008 ELEVATION:	1 N		BORING NO: B-6 DATE FINISHED: 12/31/2008 NORTH: GWL DATE/TIME: DRILL EQUIP: Geoprobe		PROJECT NAME: W.E. Lyons FIELD GEOLOGIST: Ryan Cozart EAST: GWL DEPTH: 12.5 ft GWL EQUIP: Visual CHECKED BY: WL
ELEV (FT.)	DEPTH (FT.)	SAMPLE TYPE AND NO.	REC (FT.)	PROFILE	DESCRIPTION	nscs	REMARKS
0.0	0.0		<u> </u>			0	
-5.0 -	50	B6-1.5	4.0		FILL: Baserock fill SILTY CLAY-GB: (CH) Green Black Silty Clay High Plasticity	CH CL	to it marketististis
10.0		B6-8	8.0		SILTY CLAY-GB: (CL) Green Black Silty Clay CLAY AND SILT AND GRAVEL- GG: (ML) Green Clayey Silt Mixed with Gravel	ML	Boring Drilled @ 45 Degree Angle f 28 feet
•		B6-12	12.0		SILTY CLAY - BLACK: (CL) Green Black Silty Clay High Plasticity	CL	W ater observed
15.0	15.0	B6-16	16.0		CLAYEY SILT-GREEN: (ML) Green Clayøy Silt	ML	
20.0 -	20.0	B6-20	20.0		CLAYEY SAND: (SC) Green Clayey Sand	SC ML	
		aunin kiterater kit	24.0		CLAYEY SILT-TAN: (ML) Tan Clayey Silt	GM ML	
25.0 -	25.0	B6-24	24.0		GRAVEL AND SAND- GREENBLACK: (GM) Green and Black Gravel Mixed with Sand	GC	
		B6-28	28.0	I:I:	CLAYEY SILT-TAN: (ML) Tan Clayey Silt		
					CLAY AND SILT AND GRAVEL- TAN: (GC) Tan Clay and Silt and Gravel		



ATTACHMENT 3



ANALYTICAL REPORT

Job Number: 720-17507-1 Job Description: WE LYONS

For: TCG (The Consulting Group) 394 Cecilia Way Tiburon, CA 94920-2105 Attention: Mr. Woody Lovejoy

melissa Brever

Approved for release. Melissa Brewer Project Manager I 1/8/2009 4:38 PM

Melissa Brewer Project Manager I melissa.brewer@testamericainc.com 01/08/2009

TestAmerica Laboratories, Inc. TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566 Tel (925) 484-1919 Fax (925) 600-3002 <u>www.testamericainc.com</u>

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Concentrations reported represent individual or discrete peaks: 17507-3, 720-17507-10, 720-17507-12, 720-17507-13, 720-17507-14, 720-17507-19, 720-17507-20.

Method 8015B: Capric acid surrogate recovery for the following samples was outside control limits: B4-7 (720-17507-2), B6-8 (720-17507-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17507-1	B4-4				
Gasoline Range Or Xylenes, Total	ganics (GRO)-C5-C12	0.93 0.011	0.25 0.0099	mg/Kg mg/Kg	8260B/CA_LUFTMS 8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ		3.8	1.0	mg/Kg	8015B
720-17507-2	B4-7				
Gasoline Range Or	ganics (GRO)-C5-C12	270	48	mg/Kg	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ		26	1.0	mg/Kg	8015B
720-17507-3	B4-10				
<i>Silica Gel Cleanup</i> Diesel Range Organ		1.9	1.0	mg/Kg	8015B
720-17507-4	B4-11.5				
Gasoline Range Or Ethylbenzene	ganics (GRO)-C5-C12	21 0.11	1.2 0.023	mg/Kg mg/Kg	8260B/CA_LUFTMS 8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ		4.1	1.0	mg/Kg	8015B
720-17507-5	B4-15				
Gasoline Range Or Ethylbenzene	ganics (GRO)-C5-C12	9.9 0.050	1.1 0.022	mg/Kg mg/Kg	8260B/CA_LUFTMS 8260B/CA_LUFTMS
720-17507-6	B5-4				
Gasoline Range Or	ganics (GRO)-C5-C12	0.40	0.23	mg/Kg	8260B/CA_LUFTMS
720-17507-7	B5-7				
Gasoline Range Or	ganics (GRO)-C5-C12	150	50	mg/Kg	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Orga		2.7	1.0	mg/Kg	8015B

EXECUTIVE SUMMARY - Detections

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17507-8	B5-13				
Gasoline Range Org	ganics (GRO)-C5-C12	0.48	0.24	mg/Kg	8260B/CA_LUFTMS
	DE / E				
720-17507-9 Gasoline Range Ord	B5-15 ganics (GRO)-C5-C12	220	49	mg/Kg	8260B/CA_LUFTMS
Silica Gel Cleanup			10		
Diesel Range Organ		3.1	1.0	mg/Kg	8015B
720-17507-10	B6-1.5				
	ganics (GRO)-C5-C12	0.28	0.23	mg/Kg	8260B/CA_LUFTMS
Silica Gel Cleanup				5 5	
Diesel Range Organ	nics [C10-C28]	1.9	1.0	mg/Kg	8015B
700 47507 44					
720-17507-11 Gasoline Range Ord	B6-8 ganics (GRO)-C5-C12	430	48	mg/Kg	8260B/CA_LUFTMS
Silica Gel Cleanup			40	mg/rtg	
Diesel Range Organ	nics [C10-C28]	12	1.0	mg/Kg	8015B
	50.40				
720-17507-12	B6-12 ganics (GRO)-C5-C12	1.3	0.24	mg/Kg	8260B/CA LUFTMS
		1.5	0.24	mg/rtg	0200B/CA_LOFTMO
<i>Silica Gel Cleanup</i> Diesel Range Orgar		2.3	1.0	mg/Kg	8015B
720-17507-13	B6-16				
<i>Silica Gel Cleanup</i> Diesel Range Orgar		1.1	1.0	mg/Kg	8015B
720-17507-14	B6-20				
Silica Gel Cleanup	ine (C10, C20)	2.2	1.0	m n ll n	004ED
Diesel Range Organ	lics [U10-U28]	2.2	1.0	mg/Kg	8015B

EXECUTIVE SUMMARY - Detections

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17507-15	B4-W				
Gasoline Range Org Benzene Ethylbenzene Xylenes, Total	janics (GRO)-C5-C12	1200 4.0 28 1.5	50 0.50 0.50 1.0	ug/L ug/L ug/L ug/L	8260B/CA_LUFTMS 8260B/CA_LUFTMS 8260B/CA_LUFTMS 8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ	nics [C10-C28]	340	50	ug/L	8015B
720-17507-16	B5-W				
Gasoline Range Org Toluene Ethylbenzene Xylenes, Total	janics (GRO)-C5-C12	4600 0.90 1.6 1.8	50 0.50 0.50 1.0	ug/L ug/L ug/L ug/L	8260B/CA_LUFTMS 8260B/CA_LUFTMS 8260B/CA_LUFTMS 8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ	nics [C10-C28]	560	50	ug/L	8015B
720-17507-17	B6-W				
Gasoline Range Org Ethylbenzene	ganics (GRO)-C5-C12	360 0.60	50 0.50	ug/L ug/L	8260B/CA_LUFTMS 8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i> Diesel Range Organ	nics [C10-C28]	250	50	ug/L	8015B
720-17507-19	B5-19				
<i>Silica Gel Cleanup</i> Diesel Range Organ	nics [C10-C28]	1.4	1.0	mg/Kg	8015B
720-17507-20	B5-20				
<i>Silica Gel Cleanup</i> Diesel Range Organ	nics [C10-C28]	1.7	1.0	mg/Kg	8015B

METHOD SUMMARY

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS Purge and Trap	TAL SF TAL SF	SW846 8260B/	CA_LUFTMS SW846 5030B
Diesel Range Organics (DRO) (GC) Ultrasonic Extraction	TAL SF TAL SF	SW846 8015B	SW846 3550B
Matrix: Water			
Volatile Organic Compounds by GC/MS Purge and Trap	TAL SF TAL SF	SW846 8260B/	CA_LUFTMS SW846 5030B
Diesel Range Organics (DRO) (GC) Liquid-Liquid Extraction (Separatory Funnel)	TAL SF TAL SF	SW846 8015B	SW846 3510C SGC

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TCG (The Consulting Group)

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17507-1	B4-4	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-2	B4-7	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-3	B4-10	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-4	B4-11.5	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-5	B4-15	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-6	B5-4	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-7	B5-7	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-8	B5-13	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-9	B5-15	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-10	B6-1.5	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-11	B6-8	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-12	B6-12	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-13	B6-16	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-14	B6-20	Solid	12/31/2008 0000	12/31/2008 1520
720-17507-15	B4-W	Water	12/30/2008 0000	12/31/2008 1520
720-17507-16	B5-W	Water	12/30/2008 0000	12/31/2008 1520
720-17507-17	B6-W	Water	12/31/2008 0000	12/31/2008 1520
720-17507-18	B4-18	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-19	B5-19	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-20	B5-20	Solid	12/30/2008 0000	12/31/2008 1520
720-17507-21	B6-24	Solid	12/31/2008 0000	12/31/2008 1520
720-17507-22	B6-28	Solid	12/31/2008 0000	12/31/2008 1520

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-4 Lab Sample ID: 720-17507-1 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45603 Instrument ID: Varian 3900A e:\data\2009\010709\sa-so-Preparation: 5030B Prep Batch: 720-45604 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.06 g Date Analyzed: 01/07/2009 1302 Final Weight/Volume: 10 mL Date Prepared: 01/07/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 0.93 0.25 Benzene ND 0.0049 Toluene ND 0.0049 Ethylbenzene ND 0.0049 Xylenes, Total 0.011 0.0099 TAME ND 0.0049 Ethyl tert-butyl ether ND 0.0049 MTBE ND 0.0049 DIPE 0.0049 ND TBA 0.0099 ND EDB ND 0.0049 1,2-Dichloroethane ND 0.0049 %Rec Surrogate Acceptance Limits 99 74 - 118 Toluene-d8 (Surr) 97 54 - 134

1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-7 Lab Sample ID: 12/30/2008 0000 720-17507-2 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45524 Instrument ID: Saturn 2100 5030B-Medium d:\data\200901\010209\sa-s Preparation: Prep Batch: 720-45541 Lab File ID: Dilution: 200 Initial Weight/Volume: 5.22 g Date Analyzed: 01/02/2009 2200 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 270 48 Benzene ND 0.96 Toluene ND 0.96 0.96 Ethylbenzene ND Xylenes, Total ND 1.9 TAME ND 0.96 Ethyl tert-butyl ether ND 0.96 MTBE ND 0.96 DIPE 0.96 ND TBA ND 1.9 EDB ND 0.96 1,2-Dichloroethane ND 0.96 Surrogate %Rec Acceptance Limits 86 70 - 130 Toluene-d8 (Surr)

95

1,2-Dichloroethane-d4 (Surr)

Analytical Data

70 - 130

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-10 Lab Sample ID: 720-17507-3 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.22 g Date Analyzed: 01/02/2009 1530 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0096 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0096 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 74 - 118 Toluene-d8 (Surr) 101 99 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-11.5 Lab Sample ID: 720-17507-4 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 1.08 g Date Analyzed: 01/02/2009 2002 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 21 1.2 Benzene ND 0.023 Toluene ND 0.023 Ethylbenzene 0.11 0.023 Xylenes, Total ND 0.046 TAME ND 0.023 Ethyl tert-butyl ether ND 0.023 MTBE ND 0.023 DIPE ND 0.023 TBA 0.046 ND EDB ND 0.023 1,2-Dichloroethane ND 0.023 %Rec Surrogate Acceptance Limits 74 - 118 Toluene-d8 (Surr) 101 71 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-15 Lab Sample ID: 12/30/2008 0000 720-17507-5 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A Preparation: 5030B Prep Batch: 720-45538 Lab File ID: e:\data\2009\sa-so-17507-a Dilution: 1.0 Initial Weight/Volume: 1.15 g Date Analyzed: 01/02/2009 2025 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 9.9 1.1 Benzene ND 0.022 Toluene ND 0.022 Ethylbenzene 0.050 0.022 Xylenes, Total ND 0.043 TAME ND 0.022 Ethyl tert-butyl ether ND 0.022 MTBE ND 0.022 DIPE ND 0.022 TBA 0.043 ND EDB ND 0.022 1,2-Dichloroethane ND 0.022 %Rec Acceptance Limits Surrogate 95 74 - 118 Toluene-d8 (Surr) 66 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-4 Lab Sample ID: 720-17507-6 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45585 Instrument ID: Saturn 2100 d:\data\200901\010609\sa-s Preparation: 5030B Prep Batch: 720-45588 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.33 g Date Analyzed: 01/06/2009 1031 Final Weight/Volume: 10 mL Date Prepared: 01/06/2009 0900 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 0.40 0.23 Benzene ND 0.0047 Toluene ND 0.0047 Ethylbenzene ND 0.0047 Xylenes, Total ND 0.0094 TAME ND 0.0047 Ethyl tert-butyl ether ND 0.0047 MTBE ND 0.0047 DIPE 0.0047 ND TBA 0.0094 ND EDB ND 0.0047 1,2-Dichloroethane ND 0.0047 %Rec Surrogate Acceptance Limits 74 - 118 Toluene-d8 (Surr) 82

91

1,2-Dichloroethane-d4 (Surr)

Analytical Data

54 - 134

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-7 Lab Sample ID: 12/30/2008 0000 720-17507-7 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45524 Instrument ID: Saturn 2100 5030B-Medium Preparation: Prep Batch: 720-45541 Lab File ID: d:\data\200901\010209\sa-s Dilution: 200 Initial Weight/Volume: 5.03 g Date Analyzed: 01/02/2009 1920 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 150 50 Benzene ND 0.99 Toluene ND 0.99 0.99 Ethylbenzene ND Xylenes, Total ND 2.0 TAME ND 0.99 Ethyl tert-butyl ether ND 0.99 MTBE ND 0.99 DIPE 0.99 ND TBA ND 2.0 EDB ND 0.99 1,2-Dichloroethane ND 0.99 %Rec Acceptance Limits Surrogate 89 70 - 130 Toluene-d8 (Surr) 98 70 - 130

1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-13 Lab Sample ID: 720-17507-8 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45585 Instrument ID: Saturn 2100 d:\data\200901\010609\sa-s Preparation: 5030B Prep Batch: 720-45588 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.12 g Date Analyzed: 01/06/2009 1218 Final Weight/Volume: 10 mL Date Prepared: 01/06/2009 0900 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 0.48 0.24 Benzene ND 0.0049 Toluene ND 0.0049 Ethylbenzene ND 0.0049 Xylenes, Total ND 0.0098 TAME ND 0.0049 Ethyl tert-butyl ether ND 0.0049 MTBE ND 0.0049 DIPE 0.0049 ND TBA 0.0098 ND EDB ND 0.0049 1,2-Dichloroethane ND 0.0049 %Rec Surrogate Acceptance Limits 88 74 - 118 Toluene-d8 (Surr) 92 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-15 Lab Sample ID: 720-17507-9 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45524 Instrument ID: Saturn 2100 5030B-Medium Preparation: Prep Batch: 720-45541 Lab File ID: d:\data\200901\010209\sa-s 5.07 g Dilution: 200 Initial Weight/Volume: Date Analyzed: 01/02/2009 2014 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 220 49 Benzene ND 0.99 Toluene ND 0.99 0.99 Ethylbenzene ND Xylenes, Total ND 2.0 TAME ND 0.99 Ethyl tert-butyl ether ND 0.99 MTBE ND 0.99 DIPE 0.99 ND TBA ND 2.0 EDB ND 0.99 1,2-Dichloroethane ND 0.99 %Rec Acceptance Limits Surrogate 87 70 - 130 Toluene-d8 (Surr)

89

1,2-Dichloroethane-d4 (Surr)

Analytical Data

70 - 130

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-1.5 Lab Sample ID: 720-17507-10 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45603 Instrument ID: Varian 3900A e:\data\2009\010709\sa-so-Preparation: 5030B Prep Batch: 720-45604 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.34 g Date Analyzed: 01/07/2009 1411 Final Weight/Volume: 10 mL Date Prepared: 01/07/2009 0800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 0.28 0.23 Benzene ND 0.0047 Toluene ND 0.0047 Ethylbenzene ND 0.0047 Xylenes, Total ND 0.0094 TAME ND 0.0047 Ethyl tert-butyl ether ND 0.0047 MTBE ND 0.0047 DIPE 0.0047 ND TBA 0.0094 ND EDB ND 0.0047 1,2-Dichloroethane ND 0.0047 %Rec Surrogate Acceptance Limits 100 74 - 118 Toluene-d8 (Surr) 98 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-8 Lab Sample ID: 12/30/2008 0000 720-17507-11 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45524 Instrument ID: Saturn 2100 5030B-Medium Preparation: Prep Batch: 720-45541 Lab File ID: d:\data\200901\010209\sa-s Dilution: 200 Initial Weight/Volume: 5.25 g Date Analyzed: 01/02/2009 2040 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 430 48 Benzene ND 0.95 Toluene ND 0.95 0.95 Ethylbenzene ND Xylenes, Total ND 1.9 TAME ND 0.95 Ethyl tert-butyl ether ND 0.95 MTBE ND 0.95 DIPE ND 0.95 TBA ND 1.9 EDB ND 0.95 1,2-Dichloroethane ND 0.95 %Rec Acceptance Limits Surrogate 89 70 - 130 Toluene-d8 (Surr) 92 70 - 130 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-12 Lab Sample ID: 720-17507-12 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45603 Instrument ID: Varian 3900A e:\data\2009\010709\sa-so-Preparation: 5030B Prep Batch: 720-45604 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.26 g Date Analyzed: 01/07/2009 1433 Final Weight/Volume: 10 mL Date Prepared: 01/07/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 1.3 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0095 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0095 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 100 74 - 118 Toluene-d8 (Surr) 75 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-16 Lab Sample ID: 720-17507-13 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.22 g Date Analyzed: 01/02/2009 1638 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0096 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0096 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 98 74 - 118 Toluene-d8 (Surr) 99 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-20 Lab Sample ID: 720-17507-14 12/31/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.29 g Date Analyzed: 01/02/2009 1701 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0047 Toluene ND 0.0047 Ethylbenzene ND 0.0047 Xylenes, Total ND 0.0095 TAME ND 0.0047 Ethyl tert-butyl ether ND 0.0047 MTBE ND 0.0047 DIPE 0.0047 ND TBA 0.0095 ND EDB ND 0.0047 1,2-Dichloroethane ND 0.0047 %Rec Surrogate Acceptance Limits 74 - 118 Toluene-d8 (Surr) 101 98 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID: B4-W** Lab Sample ID: 720-17507-15 Date Sampled: 12/30/2008 0000 **Client Matrix:** Water Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45523 Instrument ID: Saturn 2100 Preparation: 5030B d:\data\200901\010209\sa-Lab File ID: Dilution: 1.0 Initial Weight/Volume: 10 mL Date Analyzed: 01/02/2009 1640 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1640 Result (ug/L) Qualifier RL Analyte Gasoline Range Organics (GRO)-C5-C12 1200 50 Benzene 4.0 0.50 Toluene ND 0.50 0.50 Ethylbenzene 28 Xylenes, Total 1.5 1.0 DIPE ND 1.0 TBA ND 5.0 MTBE ND 0.50 TAME ND 0.50 Ethyl tert-butyl ether 0.50 ND EDB ND 0.50 1,2-Dichloroethane ND 0.50 %Rec Surrogate Acceptance Limits 1,2-Dichloroethane-d4 (Surr) 87 67 - 126 Toluene-d8 (Surr) 79 78 - 112

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID: B5-W** Lab Sample ID: 720-17507-16 Date Sampled: 12/30/2008 0000 **Client Matrix:** Water Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45523 Instrument ID: Saturn 2100 Preparation: 5030B d:\data\200901\010209\sa-Lab File ID: Dilution: 1.0 Initial Weight/Volume: 10 mL Date Analyzed: 01/02/2009 1706 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1706 Qualifier RL Analyte Result (ug/L) Gasoline Range Organics (GRO)-C5-C12 4600 50 Benzene ND 0.50 Toluene 0.90 0.50 0.50 Ethylbenzene 1.6 Xylenes, Total 1.8 1.0 DIPE ND 1.0 TBA ND 5.0 MTBE ND 0.50 TAME ND 0.50 Ethyl tert-butyl ether 0.50 ND EDB ND 0.50 1,2-Dichloroethane ND 0.50 %Rec Surrogate Acceptance Limits 1,2-Dichloroethane-d4 (Surr) 93 67 - 126 Toluene-d8 (Surr) 79 78 - 112

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID: B6-W** Lab Sample ID: 720-17507-17 Date Sampled: 12/31/2008 0000 **Client Matrix:** Water Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45523 Instrument ID: Saturn 2100 Preparation: 5030B d:\data\200901\010209\sa-Lab File ID: Dilution: 1.0 Initial Weight/Volume: 10 mL Date Analyzed: 01/02/2009 1733 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 1733 Result (ug/L) Qualifier RL Analyte Gasoline Range Organics (GRO)-C5-C12 360 50 Benzene ND 0.50 Toluene ND 0.50 0.50 Ethylbenzene 0.60 Xylenes, Total ND 1.0 DIPE ND 1.0 TBA ND 5.0 MTBE ND 0.50 TAME ND 0.50 Ethyl tert-butyl ether 0.50 ND EDB ND 0.50 1,2-Dichloroethane ND 0.50 %Rec Surrogate Acceptance Limits 1,2-Dichloroethane-d4 (Surr) 87 67 - 126 Toluene-d8 (Surr) 84 78 - 112

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B4-18 Lab Sample ID: 720-17507-18 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.35 g Date Analyzed: 01/02/2009 1854 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 ND 0.23 Benzene ND 0.0047 Toluene ND 0.0047 Ethylbenzene ND 0.0047 Xylenes, Total ND 0.0093 TAME ND 0.0047 Ethyl tert-butyl ether ND 0.0047 MTBE ND 0.0047 DIPE 0.0047 ND TBA 0.0093 ND EDB ND 0.0047 1,2-Dichloroethane ND 0.0047 %Rec Surrogate Acceptance Limits 91 74 - 118 Toluene-d8 (Surr) 76 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-19 Lab Sample ID: 720-17507-19 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A Preparation: 5030B Prep Batch: 720-45538 Lab File ID: e:\data\2009\sa-so-17507-a Dilution: 1.0 Initial Weight/Volume: 5.18 g Date Analyzed: 01/02/2009 1723 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0097 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0097 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 100 74 - 118 Toluene-d8 (Surr) 89 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B5-20 Lab Sample ID: 720-17507-20 12/30/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A Preparation: 5030B Prep Batch: 720-45538 Lab File ID: e:\data\2009\sa-so-17507-a Dilution: 1.0 Initial Weight/Volume: 5.18 g Date Analyzed: 01/02/2009 1746 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier RL Analyte DryWt Corrected: N Result (mg/Kg) Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0097 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0097 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 100 74 - 118 Toluene-d8 (Surr) 88 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-24 Lab Sample ID: 720-17507-21 12/31/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A Preparation: 5030B Prep Batch: 720-45538 Lab File ID: e:\data\2009\sa-so-17507-a Dilution: 1.0 Initial Weight/Volume: 5.19 g Date Analyzed: 01/02/2009 1809 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 ND 0.24 Benzene ND 0.0048 Toluene ND 0.0048 Ethylbenzene ND 0.0048 Xylenes, Total ND 0.0096 TAME ND 0.0048 Ethyl tert-butyl ether ND 0.0048 MTBE ND 0.0048 DIPE 0.0048 ND TBA 0.0096 ND EDB ND 0.0048 1,2-Dichloroethane ND 0.0048 %Rec Acceptance Limits Surrogate 95 74 - 118 Toluene-d8 (Surr) 80 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 **Client Sample ID:** B6-28 Lab Sample ID: 720-17507-22 12/31/2008 0000 Date Sampled: **Client Matrix:** Solid Date Received: 12/31/2008 1520 8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS Method: 8260B/CA LUFTMS Analysis Batch: 720-45558 Instrument ID: Varian 3900A e:\data\2009\sa-so-17507-a Preparation: 5030B Prep Batch: 720-45538 Lab File ID: Dilution: 1.0 Initial Weight/Volume: 5.07 g Date Analyzed: 01/02/2009 1831 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 Qualifier Analyte DryWt Corrected: N Result (mg/Kg) RL Gasoline Range Organics (GRO)-C5-C12 ND 0.25 Benzene ND 0.0049 Toluene ND 0.0049 Ethylbenzene ND 0.0049 Xylenes, Total ND 0.0099 TAME ND 0.0049 Ethyl tert-butyl ether ND 0.0049 MTBE ND 0.0049 DIPE 0.0049 ND TBA 0.0099 ND EDB ND 0.0049 1,2-Dichloroethane ND 0.0049 %Rec Acceptance Limits Surrogate 74 - 118 Toluene-d8 (Surr) 98 97 54 - 134 1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-4 Lab Sample ID: 720-17507-1 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.03 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1149 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 3.8 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 82 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-7 Lab Sample ID: 720-17507-2 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.00 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1553 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 26 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 8 Х 0 - 5 75 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-10 Lab Sample ID: 720-17507-3 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.07 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1243 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 1.9 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 85 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-11.5 Lab Sample ID: 720-17507-4 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.05 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1310 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 4.1 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 72 41 - 105

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-15 Lab Sample ID: 720-17507-5 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.05 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1338 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 85 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-4 Lab Sample ID: 720-17507-6 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.05 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1620 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 80 41 - 105

p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-7 Lab Sample ID: 720-17507-7 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.06 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1647 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 2.7 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 - 5 1 p-Terphenyl 84 41 - 105

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-13 Lab Sample ID: 720-17507-8 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.07 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1714 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 85 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-15 Lab Sample ID: 720-17507-9 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.04 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1526 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 3.1 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 74 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-1.5 Lab Sample ID: 720-17507-10 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.04 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1149 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 1.9 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 75 41 - 105

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-8 Lab Sample ID: 720-17507-11 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.02 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1553 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 12 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 6 Х 0 - 5 p-Terphenyl 71 41 - 105

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-12 Lab Sample ID: 720-17507-12 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.04 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1243 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 2.3 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 85 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-16 Lab Sample ID: 720-17507-13 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.03 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1310 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 1.0 1.1 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 77 41 - 105

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-20 Lab Sample ID: 720-17507-14 Date Sampled: 12/31/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.05 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1338 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 2.2 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 72 41 - 105

Client: TCG (T	he Consulting Group)		Job Number: 720-17507-1	
Client Sample ID): B4-W			
Lab Sample ID: Client Matrix:	720-17507-15 Water		Date Sampled:12/30/20080000Date Received:12/31/20081520	
	8015B Dies	el Range Organics (DRO) (GC)-Silica Gel Cleanup	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8015B 3510C SGC 1.0 01/02/2009 1551 12/31/2008 1737	Analysis Batch: 720-45526 Prep Batch: 720-45459	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 250 mL Final Weight/Volume: 1 mL Injection Volume: Column ID: PRIMARY	
Analyte		Result (ug/L)	Qualifier RL	
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C24-C36]		340 ND	50 500	
Surrogate		%Rec	Acceptance Limits	
p-Terphenyl Capric Acid (Surr)		76 1	46 - 114 0 - 5	

Client: TCG (T	he Consulting Group)	Job Number: 720-17507-1		
Client Sample ID): B5-W			
Lab Sample ID: Client Matrix:	720-17507-16 Water		Date Sampled:12/30/20080000Date Received:12/31/20081520	
	8015B Die	sel Range Organics (DRO) (GC)-Silica Gel Cleanup	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8015B 3510C SGC 1.0 01/02/2009 1619 12/31/2008 1737	Analysis Batch: 720-45526 Prep Batch: 720-45459	Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 250 mL Final Weight/Volume: 1 mL Injection Volume: Column ID: PRIMARY	
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C24-C36]		Result (ug/L) 560 ND	Qualifier RL 50 500	
Surrogate p-Terphenyl Capric Acid (Surr)		%Rec 83 1	Acceptance Limits 46 - 114 0 - 5	

Analytical Data Job Number: 720-17507-1 Client Sample ID: **B6-W** 720-17507-17 Date Sampled: 12/31/2008 0000 Water 12/31/2008 1520 Date Received: 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup 8015B Analysis Batch: 720-45526 HP DRO5 Instrument ID: 3510C SGC Prep Batch: 720-45459 Lab File ID: N/A 1.0 Initial Weight/Volume: 250 mL 01/02/2009 1646 Final Weight/Volume: 1 mL 12/31/2008 1737 Injection Volume: Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	250		50
Motor Oil Range Organics [C24-C36]	ND		500
Surrogate	%Rec		Acceptance Limits
p-Terphenyl	81		46 - 114
Capric Acid (Surr)	1		0 - 5

Client: TCG (The Consulting Group)

Lab Sample ID:

Client Matrix:

Method:

Dilution:

Preparation:

Date Analyzed:

Date Prepared:

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B4-18 Lab Sample ID: 720-17507-18 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 30.02 g Date Analyzed: 01/05/2009 1741 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1240 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 41 - 105 91

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-19 Lab Sample ID: 720-17507-19 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.08 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1620 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 1.4 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 83 41 - 105 p-Terphenyl

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B5-20 Lab Sample ID: 720-17507-20 Date Sampled: 12/30/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.01 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1741 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] 1.7 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 p-Terphenyl 79 41 - 105

TestAmerica San Francisco

Analytical Data

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-24 Lab Sample ID: 720-17507-21 Date Sampled: 12/31/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.06 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1808 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 81 41 - 105 p-Terphenyl

Analytical Data

Client: TCG (The Consulting Group) Job Number: 720-17507-1 Client Sample ID: B6-28 Lab Sample ID: 720-17507-22 Date Sampled: 12/31/2008 0000 **Client Matrix:** Solid Date Received: 12/31/2008 1520 8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup Analysis Batch: 720-45625 Method: 8015B Instrument ID: HP DRO5 Preparation: 3550B Prep Batch: 720-45490 Lab File ID: N/A 30.05 g Dilution: 1.0 Initial Weight/Volume: Date Analyzed: 01/05/2009 1808 Final Weight/Volume: 5 mL Date Prepared: 01/02/2009 1235 Injection Volume: Column ID: PRIMARY DryWt Corrected: N Result (mg/Kg) Qualifier Analyte RL Diesel Range Organics [C10-C28] ND 1.0 Motor Oil Range Organics [C24-C36] ND 50 %Rec Surrogate Acceptance Limits Capric Acid (Surr) 0 0 - 5 82 41 - 105 p-Terphenyl

Analytical Data

DATA REPORTING QUALIFIERS

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Lab Section	Qualifier	Description	
GC Semi VOA			
GC Semi VOA			
	Х	Surrogate exceeds the control limits	

Job Number: 720-17507-1

QC Association Summary

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Lah Camala ID	Client Comple ID	Report Basis		Mathad	Dran Datah
Lab Sample ID	Client Sample ID	DdSIS	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-45					
LCS 720-45523/4	Lab Control Spike	Т	Water	8260B/CA_LUFT	
LCSD 720-45523/2	Lab Control Spike Duplicate	Т	Water	8260B/CA_LUFT	
MB 720-45523/5	Method Blank	Т	Water	8260B/CA_LUFT	
720-17507-15	B4-W	Т	Water	8260B/CA_LUFT	
720-17507-16	B5-W	Т	Water	8260B/CA_LUFT	
720-17507-17	B6-W	Т	Water	8260B/CA_LUFT	
Analysis Batch:720-45	524				
_CS 720-45541/2-A	Lab Control Spike	Т	Solid	8260B/CA_LUFT	720-45541
_CSD 720-45541/3-A	Lab Control Spike Duplicate	Т	Solid	8260B/CA_LUFT	720-45541
VB 720-45541/1-A	Method Blank	Т	Solid	8260B/CA_LUFT	720-45541
720-17507-2	B4-7	Т	Solid	8260B/CA LUFT	720-45541
720-17507-7	B5-7	Т	Solid	8260B/CA_LUFT	720-45541
720-17507-9	B5-15	Т	Solid	8260B/CA_LUFT	720-45541
720-17507-11	B6-8	Т	Solid	8260B/CA_LUFT	720-45541
Prep Batch: 720-45538					
LCS 720-45538/4-A	Lab Control Spike	т	Solid	5030B	
_CSD 720-45538/5-A	Lab Control Spike Duplicate	T	Solid	5030B	
VB 720-45538/1-A	Method Blank	Ť	Solid	5030B	
720-17507-3	B4-10	T	Solid	5030B	
720-17507-3MS	Matrix Spike	Ť	Solid	5030B	
720-17507-3MSD	Matrix Spike Duplicate	Т	Solid	5030B	
720-17507-4	B4-11.5	Ť	Solid	5030B	
720-17507-5	B4-15	Ť	Solid	5030B	
720-17507-13	B6-16	Ť	Solid	5030B	
720-17507-14	B6-20	Ť	Solid	5030B	
720-17507-18	B4-18	Ť	Solid	5030B	
720-17507-19	B5-19	Ť	Solid	5030B	
720-17507-20	B5-20	Ť	Solid	5030B	
720-17507-21	B6-24	Ť	Solid	5030B	
720-17507-22	B6-28	T	Solid	5030B	
Prep Batch: 720-45541					
_CS 720-45541/2-A	Lab Control Spike	Т	Solid	5030B	
LCSD 720-45541/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-45541/1-A	Method Blank	T	Solid	5030B	
720-17507-2	B4-7	T	Solid	5030B	
720-17507-2	B4-7 B5-7	T	Solid	5030B	
720-17507-9	B5-7 B5-15	T	Solid	5030B	
720-17507-9	B6-8	T	Solid	5030B	
20-17307-11	DU-0	I	30110	3030B	

Job Number: 720-17507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA		Buolo		Wethod	Fiep Batch
Analysis Batch:720-455 LCS 720-45538/4-A		Т	Solid	9260D/CA LUET	720-45538
	Lab Control Spike	T	Solid	8260B/CA_LUFT	
LCSD 720-45538/5-A MB 720-45538/1-A	Lab Control Spike Duplicate Method Blank	T	Solid	8260B/CA_LUFT 8260B/CA_LUFT	720-45538
720-17507-3	B4-10	T	Solid	8260B/CA_LUFT	720-45538 720-45538
720-17507-3 720-17507-3MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-45538
	•	T	Solid	8260B/CA_LUFT	
720-17507-3MSD	Matrix Spike Duplicate	T			720-45538
720-17507-4	B4-11.5		Solid	8260B/CA_LUFT	720-45538
720-17507-5	B4-15	T	Solid	8260B/CA_LUFT	720-45538
720-17507-13	B6-16	T	Solid	8260B/CA_LUFT	720-45538
720-17507-14	B6-20	T	Solid	8260B/CA_LUFT	720-45538
720-17507-18	B4-18	T	Solid	8260B/CA_LUFT	720-45538
720-17507-19	B5-19	T	Solid	8260B/CA_LUFT	720-45538
720-17507-20	B5-20	Ţ	Solid	8260B/CA_LUFT	720-45538
720-17507-21	B6-24	Т	Solid	8260B/CA_LUFT	720-45538
720-17507-22	B6-28	Т	Solid	8260B/CA_LUFT	720-45538
Analysis Batch:720-45	585				
LCS 720-45588/2-A	Lab Control Spike	Т	Solid	8260B/CA_LUFT	720-45588
LCSD 720-45588/3-A	Lab Control Spike Duplicate	Т	Solid	8260B/CA_LUFT	720-45588
MB 720-45588/1-A	Method Blank	Т	Solid	8260B/CA_LUFT	720-45588
720-17507-6	B5-4	Т	Solid	8260B/CA_LUFT	720-45588
720-17507-8	B5-13	Т	Solid	8260B/CA_LUFT	720-45588
Prep Batch: 720-45588					
LCS 720-45588/2-A	Lab Control Spike	Т	Solid	5030B	
LCSD 720-45588/3-A	Lab Control Spike Duplicate	Т	Solid	5030B	
MB 720-45588/1-A	Method Blank	Т	Solid	5030B	
720-17507-6	B5-4	Т	Solid	5030B	
720-17507-8	B5-13	Т	Solid	5030B	
Analysis Batch:720-450	603				
LCS 720-45604/2-A	Lab Control Spike	Т	Solid	8260B/CA LUFT	720-45604
LCSD 720-45604/3-A	Lab Control Spike Duplicate	Ť	Solid	8260B/CA_LUFT	720-45604
MB 720-45604/1-A	Method Blank	Ť	Solid	8260B/CA_LUFT	720-45604
720-17507-1	B4-4	Ť	Solid	8260B/CA_LUFT	720-45604
720-17507-1MS	Matrix Spike	Ť	Solid	8260B/CA_LUFT	720-45604
720-17507-1MSD	Matrix Spike Duplicate	Ť	Solid	8260B/CA_LUFT	720-45604
720-17507-10	B6-1.5	Ť	Solid	8260B/CA_LUFT	720-45604
720-17507-12	B6-12	Ť	Solid	8260B/CA_LUFT	720-45604
120-11001-12	DU-12	I	Sulu	0200B/CA_LUFI	120-40004

Job Number: 720-17507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-45604					
LCS 720-45604/2-A	Lab Control Spike	Т	Solid	5030B	
LCSD 720-45604/3-A	Lab Control Spike Duplicate	Т	Solid	5030B	
MB 720-45604/1-A	Method Blank	Т	Solid	5030B	
720-17507-1	B4-4	Т	Solid	5030B	
720-17507-1MS	Matrix Spike	Т	Solid	5030B	
720-17507-1MSD	Matrix Spike Duplicate	Т	Solid	5030B	
720-17507-10	B6-1.5	Т	Solid	5030B	
720-17507-12	B6-12	Т	Solid	5030B	

Report Basis

T = Total

Job Number: 720-17507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-45459					
LCS 720-45459/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-45459/3-A	Lab Control Spike Duplicate	Α	Water	3510C SGC	
MB 720-45459/1-A	Method Blank	A	Water	3510C SGC	
720-17507-15	B4-W	Α	Water	3510C SGC	
720-17507-16	B5-W	A	Water	3510C SGC	
720-17507-17	B6-W	А	Water	3510C SGC	
Prep Batch: 720-45490					
LCS 720-45490/2-A	Lab Control Spike	Α	Solid	3550B	
LCSD 720-45490/3-A	Lab Control Spike Duplicate	А	Solid	3550B	
MB 720-45490/1-A	Method Blank	А	Solid	3550B	
720-17507-1	B4-4	Α	Solid	3550B	
720-17507-2	B4-7	Α	Solid	3550B	
720-17507-3	B4-10	Α	Solid	3550B	
720-17507-4	B4-11.5	Α	Solid	3550B	
720-17507-5	B4-15	Α	Solid	3550B	
720-17507-6	B5-4	Α	Solid	3550B	
720-17507-7	B5-7	Α	Solid	3550B	
720-17507-8	B5-13	Α	Solid	3550B	
720-17507-9	B5-15	Α	Solid	3550B	
720-17507-10	B6-1.5	Α	Solid	3550B	
720-17507-11	B6-8	Α	Solid	3550B	
720-17507-12	B6-12	Α	Solid	3550B	
720-17507-13	B6-16	Α	Solid	3550B	
720-17507-14	B6-20	Α	Solid	3550B	
720-17507-18	B4-18	Α	Solid	3550B	
720-17507-19	B5-19	Α	Solid	3550B	
720-17507-19MS	Matrix Spike	Α	Solid	3550B	
720-17507-19MSD	Matrix Spike Duplicate	Α	Solid	3550B	
720-17507-20	B5-20	Α	Solid	3550B	
720-17507-21	B6-24	Α	Solid	3550B	
720-17507-22	B6-28	А	Solid	3550B	
Analysis Batch:720-45526	6				
LCS 720-45459/2-A	Lab Control Spike	Α	Water	8015B	720-45459
LCSD 720-45459/3-A	Lab Control Spike Duplicate	А	Water	8015B	720-45459
MB 720-45459/1-A	Method Blank	А	Water	8015B	720-45459
720-17507-15	B4-W	А	Water	8015B	720-45459
720-17507-16	B5-W	A	Water	8015B	720-45459
720-17507-17	B6-W	A	Water	8015B	720-45459

Job Number: 720-17507-1

QC Association Summary

		Dement			
Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:720-45	625				
LCS 720-45490/2-A	Lab Control Spike	Α	Solid	8015B	720-45490
LCSD 720-45490/3-A	Lab Control Spike Duplicate	Α	Solid	8015B	720-45490
MB 720-45490/1-A	Method Blank	Α	Solid	8015B	720-45490
720-17507-1	B4-4	Α	Solid	8015B	720-45490
720-17507-2	B4-7	Α	Solid	8015B	720-45490
720-17507-3	B4-10	Α	Solid	8015B	720-45490
720-17507-4	B4-11.5	Α	Solid	8015B	720-45490
720-17507-5	B4-15	Α	Solid	8015B	720-45490
720-17507-6	B5-4	Α	Solid	8015B	720-45490
720-17507-7	B5-7	Α	Solid	8015B	720-45490
720-17507-8	B5-13	Α	Solid	8015B	720-45490
720-17507-9	B5-15	Α	Solid	8015B	720-45490
720-17507-10	B6-1.5	Α	Solid	8015B	720-45490
720-17507-11	B6-8	Α	Solid	8015B	720-45490
720-17507-12	B6-12	Α	Solid	8015B	720-45490
720-17507-13	B6-16	Α	Solid	8015B	720-45490
720-17507-14	B6-20	Α	Solid	8015B	720-45490
720-17507-18	B4-18	A	Solid	8015B	720-45490
720-17507-19	B5-19	Α	Solid	8015B	720-45490
720-17507-19MS	Matrix Spike	А	Solid	8015B	720-45490
720-17507-19MSD	Matrix Spike Duplicate	А	Solid	8015B	720-45490
720-17507-20	B5-20	А	Solid	8015B	720-45490
720-17507-21	B6-24	А	Solid	8015B	720-45490
720-17507-22	B6-28	А	Solid	8015B	720-45490

Report Basis

A = Silica Gel Cleanup

Client: TCG (The Consulting Group)

Method Blank - Batch: 720-45523

Lab Sample ID: MB 720-45523/5 Client Matrix: Water Dilution: 1.0 Date Analyzed: 01/02/2009 1140 Date Prepared: 01/02/2009 1140 Analysis Batch: 720-45523 Prep Batch: N/A Units: ug/L

Quality Control Results

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS Preparation: 5030B

Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010209\mb Initial Weight/Volume: 10 mL Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		50
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
TAME	ND		0.50
DIPE	ND		1.0
Ethyl tert-butyl ether	ND		0.50
ТВА	ND		5.0
EDB	ND		0.50
1,2-Dichloroethane	ND		0.50
Surrogate	% Rec	Accep	otance Limits
1,2-Dichloroethane-d4 (Surr)	92	6	7 - 126
Toluene-d8 (Surr)	82	7	8 - 112

Quality Control Results

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS

Preparation: 5030B

Instrument ID: Saturn 2100

Lab Control Spike/

Client: TCG (The Consulting Group)

LCS Lab Sample ID: LCS 720-45523/4

Lab Control Spike Duplicate Recovery Report - Batch: 720-45523

Client Matrix: Dilution: Date Analyzed: Date Prepared:	Water 1.0 01/02/2009 1314 01/02/2009 1314		Batch: N/A : ug/L		Initi	o File ID: d:\data\200901\010209\ls-v al Weight/Volume: 10 mL al Weight/Volume: 10 mL
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-45523/2 Water 1.0 01/02/2009 1341 01/02/2009 1341	Prep	rsis Batch: Batch: N/A : ug/L	720-45523	Lab	trument ID: Saturn 2100 5 File ID: d:\data\200901\010209\ld-wa al Weight/Volume: 10 mL al Weight/Volume: 10 mL
Analyte		LCS	<u>% Rec.</u> LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
	Organics (GRO)-C5-C12	64 81	64 82	43 - 95 67 - 120	0 2	20 20

Analysis Batch: 720-45523

Toluene	74	76	73 - 122 3	20
MTBE	85	81	61 - 134 5	20
Surrogate		LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)		79	81	67 - 126
Toluene-d8 (Surr)		79	81	78 - 112

Method: 8260B/CA_LUFTMS

Instrument ID: Varian 3900A Lab File ID: e:\data\2009\mb-so-9-0102 Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Preparation: 5030B

Client: TCG (The Consulting Group)	
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Method Blank - Batch: 720-45538

Lab Sample ID:MB 720-45538/1-AClient Matrix:SolidDilution:1.0Date Analyzed:01/02/2009Date Prepared:01/02/2009

Analysis Batch:	720-45558
Prep Batch: 720	-45538
Units: mg/Kg	

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND	Quai	0.25
Benzene	ND		0.0050
Toluene	ND		0.0050
Ethylbenzene	ND		0.0050
	ND		0.000
Xylenes, Total MTBE	ND		0.0050
TAME	ND		0.0050
DIPE	ND		0.0050
Ethyl tert-butyl ether	ND		0.0050
ТВА	ND		0.010
EDB	ND		0.0050
1,2-Dichloroethane	ND		0.0050
Surrogate	% Rec	Acc	eptance Limits
1,2-Dichloroethane-d4 (Surr)	91		54 - 134
Toluene-d8 (Surr)	99		74 - 118

Quality Control Results

Job Number: 720-17507-1

Client: TCG (The Consulting Group)

Quality Control Results

Job Number: 720-17507-1

Lab Control Spike/ Method: 8260B/CA LUFTMS Preparation: 5030B Lab Control Spike Duplicate Recovery Report - Batch: 720-45538 LCS Lab Sample ID: LCS 720-45538/4-A Analysis Batch: 720-45558 Instrument ID: Varian 3900A Client Matrix: Prep Batch: 720-45538 e:\data\2009\ls-so-9-01020 Solid Lab File ID: Units: mg/Kg Initial Weight/Volume: Dilution: 1.0 5 g Date Analyzed: 01/02/2009 1435 Final Weight/Volume: 10 mL Date Prepared: 01/02/2009 0800 LCSD Lab Sample ID: LCSD 720-45538/5-A Analysis Batch: 720-45558 Instrument ID: Varian 3900A Client Matrix: Solid Prep Batch: 720-45538 Lab File ID: e:\data\2009\ld-so-9-010201 Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 g 01/02/2009 1458 Final Weight/Volume: 10 mL Date Analyzed: Date Prepared: 01/02/2009 0800

	(% Rec.			
Analyte	LCS	LCSD	Limit	RPD	RPD Limit LCS Qual LCSD Qual
Gasoline Range Organics (GRO)-C5-C12	78	78	43 - 95	0	20
Benzene	98	109	65 - 116	10	20
Toluene	81	87	69 - 121	8	20
МТВЕ	82	89	73 - 131	8	20
Surrogate	L	CS % Rec	LCSD %	Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	8	37	93		54 - 134
Toluene-d8 (Surr)	ę	99	104		74 - 118

Quality Control Results

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS Preparation: 5030B

MS Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	720-17507-3 Solid 1.0 01/02/2009 1553 01/02/2009 0800	Analysis Batch: 720-45558 Prep Batch: 720-45538	Instrument ID: Varian 3900A Lab File ID: e:\data\2009\sa-so-17507 Initial Weight/Volume: 5.16 g Final Weight/Volume: 10 mL
MSD Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	720-17507-3 Solid 1.0 01/02/2009 1615 01/02/2009 0800	Analysis Batch: 720-45558 Prep Batch: 720-45538	Instrument ID: Varian 3900A Lab File ID: e:\data\2009\sa-so-17507-a Initial Weight/Volume: 5.22 g Final Weight/Volume: 10 mL

	<u>%</u>	<u>Rec.</u>				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Gasoline Range Organics (GRO)-C5-C12	76	75	43 - 95	3	20	
Benzene	103	101	55 - 140	3	20	
Toluene	81	83	61 - 138	2	20	
МТВЕ	90	89	49 - 161	1	20	
Surrogate		MS % Rec	MSD	% Rec	Acce	ptance Limits
1,2-Dichloroethane-d4 (Surr)		91	74		54	4 - 134
Toluene-d8 (Surr)		100	102		74	4 - 118

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-45538

Client: TCG (The Consulting Group)

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS Preparation: 5030B

70 - 130

70 - 130

Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010209\mb Initial Weight/Volume: 5.0 g

Dilution:200Date Analyzed:01/02/20091800Date Prepared:01/02/20091800	Units: mg/Kg		Weight/Volume: 5.0 g Weight/Volume: 10 mL
Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		50
Benzene	ND		1.0
Toluene	ND		1.0
Ethylbenzene	ND		1.0
Xylenes, Total	ND		2.0
MTBE	ND		1.0
TAME	ND		1.0
DIPE	ND		1.0
Ethyl tert-butyl ether	ND		1.0
ТВА	ND		2.0
EDB	ND		1.0
1,2-Dichloroethane	ND		1.0
Surrogate	% Rec	Acc	eptance Limits

Analysis Batch: 720-45524

98

90

Prep Batch: 720-45541

Method Blank - Batch: 720-45541

Lab Sample ID: MB 720-45541/1-A

Solid

Client Matrix:

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

Client: TCG (The Consulting Group)

Quality Control Results

Client: TCG (The Consulting Group)

01/02/2009 1853

01/02/2009 1800

Date Analyzed:

Date Prepared:

Quality Control Results

Job Number: 720-17507-1

Final Weight/Volume: 10 mL

	9	6 Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	96	74 - 121	6	20		
Toluene	95	101	86 - 121	6	20		
MTBE	90	100	84 - 127	10	20		
Surrogate	L	CS % Rec	LCSD %	Rec	Acce	otance Limits	;
1,2-Dichloroethane-d4 (Surr)	9	4	100		7	'0 - 130	
Toluene-d8 (Surr)	9	4	94		7	'0 - 130	

Lab Control Sp	ike/	Method: 8260B/CA_LUFTMS	
Lab Control Sp	ike Duplicate Recovery	Preparation: 5030B	
LCS Lab Sample I Client Matrix: Dilution: Date Analyzed: Date Prepared:	ID: LCS 720-45541/2-A Solid 200 01/02/2009 1826 01/02/2009 1800	Analysis Batch: 720-45524 Prep Batch: 720-45541 Units: mg/Kg	Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010209\ls-s Initial Weight/Volume: 5.0 g Final Weight/Volume: 10 mL
LCSD Lab Sample	e ID: LCSD 720-45541/3-A	Analysis Batch: 720-45524	Instrument ID: Saturn 2100
Client Matrix:	Solid	Prep Batch: 720-45541	Lab File ID: d:\data\200901\010209\ld-sc
Dilution:	200	Units: mg/Kg	Initial Weight/Volume: 5.0 g

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Quality Control Results

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS Preparation: 5030B

Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010609\mb Initial Weight/Volume: 5.0 g Final Weight/Volume: 10 ml

Date Analyzed: 01/06/2009 0901 Date Prepared: 01/06/2009 0900	5 5		Final Weight/Volume	: 10 mL
Analyte	Result	Qual		RL
Gasoline Range Organics (GRO)-C5-C12	ND			0.25
Benzene	ND			0.0050
Toluene	ND			0.0050
Ethylbenzene	ND			0.0050
Xylenes, Total	ND			0.010
MTBE	ND			0.0050
TAME	ND			0.0050
DIPE	ND			0.0050
Ethyl tert-butyl ether	ND			0.0050
ТВА	ND			0.010
EDB	ND			0.0050
1,2-Dichloroethane	ND			0.0050
Surrogate	% Rec		Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	91		54 - 134	
Toluene-d8 (Surr)	84		74 - 118	

Analysis Batch: 720-45585

Prep Batch: 720-45588

Units: mg/Kg

Client: TCG (The Consulting Group)

Method Blank - Batch: 720-45588

Lab Sample ID: MB 720-45588/1-A

1.0

Client Matrix: Solid

Dilution:

01/08	/2009
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Quality Control Results

Method: 8260B/CA_LUFTMS

Preparation: 5030B

Job Number: 720-17507-1

Lab Control Spike/

Client: TCG (The Consulting Group)

Lab Control Spike Duplicate Recovery Report - Batch: 720-45588

LCS Lab Sample I Client Matrix: Dilution: Date Analyzed: Date Prepared:	D: LCS 720-45588/2-A Solid 1.0 01/06/2009 0931 01/06/2009 0900	Analysis Batch: 720-45585 Prep Batch: 720-45588 Units: mg/Kg	Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010609\ls-s Initial Weight/Volume: 5.0 g Final Weight/Volume: 10 mL
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-45588/3-A Solid 1.0 01/06/2009 0958 01/06/2009 0900	Analysis Batch: 720-45585 Prep Batch: 720-45588 Units: mg/Kg	Instrument ID: Saturn 2100 Lab File ID: d:\data\200901\010609\ld-sc Initial Weight/Volume: 5.0 g Final Weight/Volume: 10 mL
Analyte		<u>% Rec.</u> LCS LCSD Limit	RPD RPD Limit LCS Qual LCSD Qual

Gasoline Range Organics (GRO)-C5-C12	58	60	43 - 95	4	20
Benzene	85	85	65 - 116	0	20
Toluene	76	75	69 - 121	2	20
МТВЕ	85	85	73 - 131	0	20
Surrogate		LCS % Rec	LCSD %	Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)		81	83		54 - 134
Toluene-d8 (Surr)		82	80		74 - 118

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Quality Control Results

Job Number: 720-17507-1

Method: 8260B/CA_LUFTMS Preparation: 5030B

Instrument ID: Varian 3900A Lab File ID: e:\data\2009\010709\mb-wi Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Analyte Result Qual RL Gasoline Range Organics (GRO)-C5-C12 ND 0.25 Benzene ND 0.0050 Toluene ND 0.0050 Ethylbenzene ND 0.0050 Xylenes, Total ND 0.010 MTBE 0.0050 ND TAME ND 0.0050 DIPE ND 0.0050 Ethyl tert-butyl ether ND 0.0050 TBA ND 0.010 EDB ND 0.0050 1,2-Dichloroethane ND 0.0050 Surrogate % Rec Acceptance Limits 1,2-Dichloroethane-d4 (Surr) 97 54 - 134 Toluene-d8 (Surr) 100 74 - 118

Method Blank - Batch: 720-45604

Client: TCG (The Consulting Group)

Lab Sample ID: MB 720-45604/1-A Client Matrix: Solid Dilution: 1.0 Date Analyzed: 01/07/2009 0933 Date Prepared: 01/07/2009 0800

Analysis Batch: 720-45603 Prep Batch: 720-45604 Units: mg/Kg

01/08/2009

Quality Control Results

Method: 8260B/CA_LUFTMS

Preparation: 5030B

Job Number: 720-17507-1

Lab Control Spike/

Client: TCG (The Consulting Group)

Lab Control Spike Duplicate Recovery Report - Batch:	720-45604

LCS Lab Sample I Client Matrix: Dilution: Date Analyzed: Date Prepared:	D: LCS 720-45604/2-A Solid 1.0 01/07/2009 1143 01/07/2009 0800	Analysis Batch: 7 Prep Batch: 720-√ Units: mg/Kg		Lab Fil Initial \		me: 5 g)10709\ls-so-
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-45604/3-A Solid 1.0 01/07/2009 1205 01/07/2009 0800	Analysis Batch: 7 Prep Batch: 720-4 Units: mg/Kg		Lab Fil Initial \		me: 5 g	0709\ld-so-8
Analyte		<u>% Rec.</u> LCS LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual

54	57	43 - 95	5	20
106	103	65 - 116	3	20
86	86	69 - 121	0	20
95	89	73 - 131	7	20
	LCS % Rec	LCSD %	Rec	Acceptance Limits
	79	82		54 - 134
	94	99		74 - 118
	106 86	106 103 86 86 95 89 LCS % Rec 79	106 103 65 - 116 86 86 69 - 121 95 89 73 - 131 LCS % Rec LCSD % 79 82	106 103 65 - 116 3 86 86 69 - 121 0 95 89 73 - 131 7 LCS % Rec LCSD % Rec 79 82

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-45604

Method: 8260B/CA_LUFTMS Preparation: 5030B

MS Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	720-17507-1 Solid 1.0 01/07/2009 1325 01/07/2009 0800	Analysis Batch: 720-45603 Prep Batch: 720-45604	Instrument ID: Varian 3900A Lab File ID: e:\data\2009\010709\sa-s Initial Weight/Volume: 5.15 g Final Weight/Volume: 10 mL
MSD Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	720-17507-1 Solid 1.0 01/07/2009 1348 01/07/2009 0800	Analysis Batch: 720-45603 Prep Batch: 720-45604	Instrument ID: Varian 3900A Lab File ID: e:\data\2009\010709\sa-so- Initial Weight/Volume: 5.27 g Final Weight/Volume: 10 mL

	<u>%</u>	Rec.				
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual MSD Qual
Gasoline Range Organics (GRO)-C5-C12	50	61	43 - 95	11	20	
Benzene	109	100	55 - 140	10	20	
Toluene	89	81	61 - 138	11	20	
MTBE	118	102	49 - 161	17	20	
Surrogate		MS % Rec	MSD 9	% Rec	Acce	ptance Limits
1,2-Dichloroethane-d4 (Surr)		86	103		54	4 - 134
Toluene-d8 (Surr)		109	96		74	4 - 118

Quality Control Results

Job Number: 720-17507-1

Quality Control Results

Method: 8015B

Lab File ID: N/A

Preparation: 3510C SGC Silica Gel Cleanup

Instrument ID: HP DRO5

Job Number: 720-17507-1

Method Blank - Batch: 720-45459

Dilution: 1. Date Analyzed: 07 Date Prepared: 12	1/01/2009 0024	Units: เ	ıg/L		Fi	itial Weight/Vo inal Weight/Vo jection Volum olumn ID:	olume: 1 ml	
Analyte			Result	C	Qual		RL	
Diesel Range Orga Motor Oil Range C	anics [C10-C28] organics [C24-C36]		ND ND				50 500)
Surrogate			% Rec			Acceptance Li	imits	
Capric Acid (Surr) p-Terphenyl			0 80			0 - 5 46 - 114		
Lab Control Sp Lab Control Sp	ike/ ike Duplicate Recover	y Report -	Batch: 72	20-45459	Р	lethod: 801 reparation: ilica Gel Cle	3510C SG0	;
LCS Lab Sample I Client Matrix: Dilution: Date Analyzed: Date Prepared:	D: LCS 720-45459/2-A Water 1.0 12/31/2008 2331 12/31/2008 1035	•	sis Batch: 7 Batch: 720- ug/L		Lal Init Fin Inje	trument ID: o File ID: N/A ial Weight/Vol al Weight/Vol ection Volume lumn ID:	A lume: 250 ume: 1 r	
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-45459/3-A Water 1.0 12/31/2008 2358 12/31/2008 1035	•	sis Batch: 7 3atch: 720- ug/L		Lal Init Fin Inje	trument ID: o File ID: N ial Weight/Vol al Weight/Vol ection Volume lumn ID:	ume: 1 ml	-
Analyte		LCS	<u>Rec.</u> LCSD	Limit	RPD	RPD Limit	t LCS Qual	LCSD Qual
Diesel Range Orga	anics [C10-C28]	68	64	41 - 103	6	30		
Surrogate		L	CS % Rec	LCSD %	% Rec	Acce	eptance Limits	6
p-Terphenyl		76	3	75			46 - 114	

Analysis Batch: 720-45526

Prep Batch: 720-45459

Lab Sample ID: MB 720-45459/1-A

Client Matrix: Water

Client: TCG (The Consulting Group)

Quality	Control	Results
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Job Number: 720-17507-1

Client: TCG (The Consulting Group)

Method Blank -	Batch: 720-45490					Method: 8015B Preparation: 3550B Silica Gel Cleanup				
	olid .0 1/05/2009 1055	•	s Batch: 72 atch: 720-4 mg/Kg			Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.01 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY				
Analyte			Result		Qual	RL				
Diesel Range Orga Motor Oil Range O	anics [C10-C28] Drganics [C24-C36]		ND ND			1.0 50				
Surrogate			% Rec			Acceptance Limits				
Capric Acid (Surr) p-Terphenyl			0 96			0 - 5 41 - 105				
Lab Control Sp Lab Control Sp	ike/ ike Duplicate Recovery	Report	- Batch: 72	20-45490		Method: 8015B Preparation: 3550B Silica Gel Cleanup				
LCS Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	ID: LCS 720-45490/2-A Solid 1.0 01/05/2009 1001 01/02/2009 1235	Prep	sis Batch: 7 Batch: 720- mg/Kg			Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.04 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY				
LCSD Lab Sample Client Matrix: Dilution: Date Analyzed: Date Prepared:	e ID: LCSD 720-45490/3-A Solid 1.0 01/05/2009 1028 01/02/2009 1235	Prep	sis Batch: 7 Batch: 720- mg/Kg			Instrument ID: HP DRO5 Lab File ID: N/A Initial Weight/Volume: 30.05 g Final Weight/Volume: 5 mL Injection Volume: Column ID: PRIMARY				
Analyte		LCS	<u>6 Rec.</u> LCSD	Limit	RPI	D RPD Limit LCS Qual LCSD Qual				
Diesel Range Org	anics [C10-C28]	75	80	50 - 130) 6	30				
Surrogate		LCS % Rec LCSD			CSD % Rec Acceptance Limits					
p-Terphenyl		g	4	91		41 - 105				

Quality Control Results

Method: 8015B

Preparation: 3550B Silica Gel Cleanup

Instrument ID: HP DRO5

Job Number: 720-17507-1

Client: TCG (The Consulting Group)

MS Lab Sample ID: 720-17507-19

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-45490

Client Matrix:	Solid	Prep	Batch: 720-4	5490	La	ab File ID:	N/A	
Dilution:	1.0				In	itial Weight/Vol	lume: 30.08	g
Date Analyzed:	01/05/2009 1647				Fi	nal Weight/Vol	ume: 5 mL	-
Date Prepared:	01/02/2009 1235					jection Volume		
						olumn ID:	PRIMARY	
MSD Lab Sample ID:	720-17507-19	Anal	ysis Batch: 72	20-45625	In	strument ID: H	P DRO5	
Client Matrix:	Solid	Prep	Batch: 720-4	5490	La	ab File ID: N	/A	
Dilution:	1.0				In	itial Weight/Vol	lume: 30.03 g	
Date Analyzed:	01/05/2009 1714				Fi	nal Weight/Vol	ume: 5 mL	
Date Prepared:	01/02/2009 1235				In	jection Volume	:	
					С	olumn ID:	PRIMARY	
		<u>%</u>	Rec.					
Analyte		MS	MSD	Limit	RPD	RPD Limit	MS Qual M	ISD Qual
Diesel Range Organi	cs [C10-C28]	65	67	50 - 130	2	30		
Surrogate			MS % Rec	MSD	% Rec	Acce	eptance Limits	
p-Terphenyl			76	78		4	1 - 105	

Analysis Batch: 720-45625

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	in the second second second			Lp, Oakland	- 0 8015/8021 D	matics 1 8021 [] (Silica G tor Oil []	A EDB D	scarbons 8021	cs GC/MS D 624	SC/MS 825	Total	PA 8081 [082 [] 60	D 8270 D	CAM17 Metais (6010/7470/1)	R LUFT	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time forH ₂ O)	Spec Cond. D Alk TSS D TDS		1268	d TEPH-h		ainers
Fax:	00.4023	Cell: 510				A-D	Mo Mo	8260B	EPA	rgani 60B	70 D	rease 4) X	PAB		etais	Lead	E d	alent hok	00	NO	260/	O an		Con
Sample ID	Date	Time	Matr	and a second of	TPH EPA -	Purgeable Aromatics BTEX EPA - CI 8021	TEPH 8015M K Silica Gel	Fuel Tests 82608. K Gas K BTEX K Fave Oxy K DCA, EDB C Ethand	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GCMS (VOCs) B EPA 8260B D 624	Semivolatiles GC/MS	Oil and Grease 🗆 Petroleum (EPA 1664) 🕅 Total	Pesticides X EPA 8081 11 608 PCBs X EPA 8082 11 608	PNAS by	CAM17 M	Metals: 🗆 Lead 🕅 LUFT 🗆 Other:	D WE		C Spe	Anions : [F [] Br []	Araclar 1260 / 1268	TEPH-DRO and TEPH-ho. Strip		Number of Containers
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nr it	12/30/08		5	N			X	×				-					-							1
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	12/30/08		S	N		-	X	X			-								-		<u> </u>			1
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01/08/2009

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Date: 12/30/08	Page 2	2 of	2
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Sample ID	Date	Time	Matrix	Pres.	TPH EPA - 🕅 8015/6021 □ 82/ ⊠ Gas w/ 🕅 BTEX 🕅 MTBE	Purgeable Aromatics BTEX EPA - [] 8021	TEPH 8015M K Silica Gel Diesel K Motor Oil D Other:	Fuel Tests 82608: K Gas K BTEX K Five Oxy K DCA, EDB C Ethand	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs)	Semivolatiles GC/MS EPA 8270 [] 625	Oil and Grease 🗆 Petroleum (EPA 1664) 🔲 Total	Pesticides K E PCBs K EPA (PNAs by	CAM17 Metals (5010/7470/1)	Metals: D Lead	TCI W.E	Hexavalent Chromium PH (24h hold time forH ₂ O)	D Spec	Anions : F [] Br []	Araclar 1260 / 1268			1000
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B6- 8	12/30/08		S	N			x	x	i – ii				-						-				-	1
B6- 12	12/30/08		S	N			x	x			-	-	-		-									1
B6- 16	12/30/08		s	N			x	x	_		-					-						-	_	1
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6 - V= 4's 2 - AL

Login Number: 17507 Creator: Bullock, Tracy List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Job Number: 720-17507-1

List Source: TestAmerica San Francisco