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ENVIRONMENTAL HEALTH SERVICE
DENIS L. BROWN

November 16, 2005

Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
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Shell Oil Products US
HSE – Environmental Services
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Re: Subsurface Investigation and Over-Excavation Report
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident #98995746

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Subsurface Investigation and Over-Excavation Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Sr. Environmental Engineer

C A M B R I A

November 16, 2005

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Alameda County Health Care Services Agency
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ENVIRONMENTAL HEALTH SERVICES

Re: **Subsurface Investigation and Over-Excavation Report**
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746
Cambria Project #247-0897-012
ACHCSA Case #113



Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting the results of the subsurface investigation conducted on August 29, 2005 and the over-excavation performed on September 20, 23, and 24, 2005. This work was conducted in accordance with Cambria's August 22, 2005 *Subsurface Investigation Work Plan* and September 13, 2005 *Over-Excavation Work Plan*. The Alameda County Health Care Services Agency (ACHCSA) approved these work plans in August 22, 2005 and September 14, 2005 letters to Shell. The purpose of the investigation was to determine whether hydrocarbon-impacted soil or groundwater remained at the location of a 1958 release of an unknown quantity of gasoline as a result of underground piping damage at the site. The purpose of the excavation was to remove hydrocarbon-impacted soil to the extent feasible prior to the construction of new commercial buildings at the site. Presented below are summaries of the site background, investigation procedures, investigation results, over-excavation, conclusions and recommendations.

SITE BACKGROUND

Site Description: The site is a former Shell-branded service station located on the southwest corner of the Foothill Boulevard and High Street intersection in Oakland, California (Figures 1 and 2). Land use in the site vicinity is mixed commercial and residential, with gasoline service stations occupying the northeastern and northwestern corners of the intersection. Fremont High School is located on the southeastern intersection corner. The property is currently being redeveloped for commercial use by the property owner. Prior to its removal, the station layout included three gasoline underground storage tanks (USTs), a waste oil UST, and four product

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dispensers (Figure 2). An earlier generation of USTs was located in the southern corner of the site. Records recently found indicate that a fuel leak occurred in 1958. These USTs were removed sometime between July and September 1971.

1958 UST Piping Leak: On April 19, 1958, a gasoline shortage was discovered at the operating Shell station. It was determined that whenever the pump submerged in one of the site's three 6,000-gallon tanks was activated, there was a piping leak into a concrete pump pit and then into the soil in the vicinity of the storage tanks. Product was found in an irrigation well located at 4320 Bond Street, adjacent to the Shell site. Shell installed 22 8-inch wells to depths of 15 feet below grade (fbg) along the property boundary and 1 well within the tank complex. Groundwater was pumped from the wells, and the extracted water was transported to a separator. Though the volume of the release is not known, Shell reported in a June 2, 1958 letter to Traveler's Insurance Company that they recovered 650 gallons of gasoline from the wells. No documentation of any soil or groundwater sampling in response to the release has been located.

1971 UST Removal and Replacement: During a review of archived files for the site, Cambria found a Shell document dated July 15, 1971 that noted plans to remove the existing 6,000-gallon USTs. No documentation of the removal or of any soil or groundwater sampling was located in the archived files.


Cambria also found an invoice dated September 17, 1971 for the delivery of one 10,000-gallon UST, one 8,000-gallon UST, and one 550-gallon underground waste oil tank. No documentation of the tank installations was located in the archived files.

1977 Dispenser Piping Leak: During a review of archived files for the site, Cambria found a Shell Oil Company Spill Report dated October 19, 1977 documenting the release of 2,000 gallons of gasoline from a leaking pipe that ran from the USTs to the dispenser located closest to High Street. The report noted that the damaged section of pipe was replaced and that leak detectors were installed on all systems. No documentation of the repair or of any soil or groundwater sampling in response to the release was located in the archived files.

1984 UST Removal and Replacement: During a review of archived files for the site, Cambria found a Shell purchase order dated October 1, 1984 for removal of the existing USTs and installation of three 10,000-gallon fiberglass tanks. No documentation of the removal or of any confirmation sampling was located in the archived files.

1991 Waste Oil Tank Leak: During a review of archived files for the site, Cambria found an Underground Storage Tank Unauthorized Release Report submitted by Shell to ACHCSA on June 5, 1991. The report detailed a release from the 550-gallon waste oil tank at the site. The report stated that the release was caused by tank failure, that the volume of release is unknown,

and that the contents of the tank had been removed. Shell's suggested remedial action was to remove the waste oil tank.



1992 Waste Oil Tank Removal: The 550-gallon waste oil tank was removed on February 5, 1992. A soil sample was collected at the bottom of the excavation at a depth of approximately 11 fbg. No total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), benzene, toluene, ethylbenzene and xylenes (BTEX), oil and grease, halogenated volatile organic compounds, or metals were detected in the sample. Total lead was detected at 6.7 parts per million (ppm). This likely represents the background lead concentration in the local soil. A sample of the stockpiled soil contained 5.2 ppm of TPHg, 14 ppm of TPHd, and 130 ppm of total oil and grease. Details of the waste oil tank removal and sampling activities are presented in a March 26, 1992 GeoStrategies Inc. (GeoStrategies) report.

1992 Monitoring Well Installation: A single monitoring well (S-1) was installed in the vicinity of the waste-oil tank location. Details of this well installation are presented in the GeoStrategies' January 19, 1993 *Monitoring Well Installation Report*.

1993 Monitoring Well Installations: Hydro Environmental Technologies, Inc. (HETI) installed monitoring wells S-2 and S-3 on May 21, 1993. Well installations details are presented in HETI's July 22, 1993 report.

1995 Soil and Groundwater Investigation: Pacific Environmental Group (PEG) of San Jose, California conducted a Geoprobe® investigation in June 1995. The investigation consisted of advancing eight on-site soil borings and two off-site borings to collect soil and groundwater samples. PEG's September 12, 1995 *Site Investigation* report presents investigation details.

1998 Product Equipment Upgrades: In November 1998, Paradiso Mechanical (Paradiso) of San Leandro, California upgraded the service station by adding secondary containment to the gasoline turbines and dispensers. Details of dispenser upgrade and sampling activities are presented in Cambria's November 30, 1998 *Dispenser Soil Sampling Report*.

January 1999 Letter Response and Work Plan: In response to the December 7, 1998 ACHCSA letter to Equiva Services LLC (Equiva), Cambria prepared a *Letter Response and Work Plan* dated January 11, 1999. In this work plan, Cambria proposed an additional on-site groundwater monitoring well (S-4) and enhanced groundwater oxygenation via hydrogen peroxide injection into existing site wells.

March 1999 Work Plan Addendum: In a phone conversation with Cambria on February 1, 1999, the ACHCSA requested additional information regarding the location of proposed well S-4 and the use of hydrogen peroxide. As a result, Cambria submitted a *Work Plan Addendum* on March 18, 1999. In this addendum, Cambria proposed locating well S-4 between the station

building and the nearest dispenser-island to the north. Due to the lack of requested response from the Oakland Fire Department on the safety of hydrogen peroxide use, Cambria also proposed the application of oxygen releasing compound (ORC) in lieu of hydrogen peroxide.

April 1999 ACHCSA Letter: In an April 30, 1999 letter to Equiva, ACHCSA requested further information regarding the application of ORC. In addition, the ACHCSA requested that Cambria perform a feasibility study to evaluate alternatives to prevent methyl tertiary butyl ether (MTBE) migration. Cambria provided the requested information in the *Letter Response* dated June 15, 1999. In September 1999, ORC socks were subsequently installed in wells S-1, S-2, and BW-A.



December 1999 Letter Response, Work Plan, and Conduit Study: In a November 10, 1999 letter, the ACHCSA requested that a site conceptual model (SCM) and work plan be prepared for the site. Cambria submitted a *Letter Response and Work Plan* on December 13, 1999. In that work plan, Cambria presented findings of a subsurface conduit study. Several conduits, which may provide limited preferential groundwater flow at times of high groundwater elevations, were identified.

The deepest conduits located near the site are sanitary sewer pipelines with flowlines ranging from approximately 6 to 11 fbg. Although the depth to water in wells S-2 and S-3 along the western perimeter of the site has ranged from approximately 6 to 10.5 fbg, the depth to water is typically 8 to 9 fbg. Therefore, only the deepest sanitary sewer conduit trench has the potential to cause preferential flow of impacted groundwater. However, given that only a small portion of the trench backfill typically intersects groundwater and the fact that gravel lenses exist locally from 10 to 13 fbg, the potential for significant preferential groundwater flow in the utility trench is considered to be low.

January 2000 Site Investigation: Cambria conducted a site investigation in January 2000. Per the ACHCSA request, well S-4 was proposed between the station building and southeastern dispenser island. However, a conduit was encountered while drilling boring SB-4, and the boring was relocated approximately 50 feet southeast. The second boring (SB-4B) was located adjacent to the southeast corner of the station building, and well S-4 was installed in boring SB-4B to a depth of 20 fbg. In boring SB-4B, the maximum TPHd and TPHg concentrations were detected in sample SB-4B-5.5 at 27.2 ppm and 28.2 ppm, respectively. The maximum benzene concentration was detected in sample SB-4B-10.5 at 0.0696 ppm. The maximum MTBE concentration by EPA Method 8020 was reported in sample SB-4B-19.0 at 0.233 ppm. MTBE was confirmed by EPA Method 8260 in sample SB-4B-19.0 at a concentration of 0.0549 ppm. Details of the investigation are contained in Cambria's November 17, 2000 *Site Investigation Report*.

November 2001 Corrective Action Plan (CAP): On November 12, 2001, Cambria submitted a CAP in preparation for impending site demolition and fueling facility removal. In the CAP, Cambria discussed remedial alternatives and made remedial action recommendations. Cambria recommended additional on-site over-excavation, following removal of the underground facilities, to substantially remove residual impacted soils from within the property boundaries. Cambria also recommended removing groundwater from the excavation, and placing ORC at the base of the excavation to enhance biological degradation of residual impacted soil and groundwater. Continued quarterly groundwater monitoring was recommended to track the subsequent natural attenuation process.



February 2002 UST Closure Report: Paradiso removed the gasoline USTs and hydraulic hoists, and over-excavated approximately 1,250 cubic yards of impacted soil around and beneath the USTs, product dispenser islands, and hydraulic hoists. Phillips Services Corporation extracted approximately 16,000 gallons of groundwater from the excavation pits. Subsequent to over-excavation, Paradiso placed 810 pounds of ORC powder over the excavation bottom. Details of the fuel facilities removal and corrective action are presented in Cambria's February 25, 2002 *Underground Storage Tank Closure Report*.

May 2002 Well Installation: In May 2002, Cambria installed one groundwater monitoring well (S-5) to complete the network of monitoring wells on site. The well was installed at a depth of 22 fbg. During the boring advancement, soil samples were collected at 15 and 20 fbg for lithologic logging purposes. Because these soil samples were collected beneath the water table, they were not submitted for chemical analysis. The well installation is described in Cambria's July 2, 2002 *Monitoring Well Installation Report*.

2005 Subsurface Investigation Work Plan and SCM: In response to a request in the June 10, 2005 letter from ACHCSA, Cambria submitted a *Subsurface Investigation Work Plan and Site Conceptual Model* on June 23, 2005. The work plan proposed a depth-discrete soil and groundwater investigation to vertically profile the lithology and hydrocarbon impacts prior to the installing new monitoring wells. Cambria will use this information to determine appropriate screened intervals for the new wells. The proposed investigation included the off-site areas to the south of the site in response to documents found by Cambria during a review of its files discussing the 1958 release of an unknown quantity of gasoline as a result of underground piping damage.

2005 Well Destructions: In anticipation of redevelopment of the site, Cambria destroyed wells S-1 through S-5 on July 14, 2005. The well destructions were completed in accordance with Alameda County Public Works Agency and San Francisco Regional Water Quality Control Board guidelines. The well destructions are described in Cambria's August 19, 2005 *Well Destruction Report*.

2005 Subsurface Investigation Work Plan: On August 22, 2005, Cambria submitted a *Subsurface Investigation Work Plan* to investigate subsurface conditions in the vicinity of the 1958 gasoline release and the USTs that were apparently on site until 1971. Cambria proposed to advance three borings and to collect soil and groundwater samples to investigate the presence and vertical extent of petroleum-hydrocarbon-impacted soil and groundwater in this portion of the site. Results of that investigation are included in this report.


2005 Over-Excavation Work Plan: On September 13, 2005, Cambria submitted an *Over-Excavation Work Plan* following the discovery of hydrocarbon-impacted soil and groundwater in several soil borings completed during the subsurface investigation described above. Details of the over-excavation activities are included in this report.

Sediment Lithology: Sandy clay and silt underlies the site from approximately 6 to 10 fbg. Clayey sand lenses of sandy silt and gravel underlies the sandy clay from approximately 10 to 19 fbg. Sandy clay and clay underlies the clayey sand to the maximum on-site explored depth of 26 fbg. At some boring locations, a poorly sorted sand was encountered from between 7 and 10 fbg to approximately 20 fbg. This appears to be the main water bearing unit at the site.

Groundwater Characteristics and Monitoring Results: Groundwater has been monitored at the site since December 1992. Since then, groundwater depths have ranged from approximately 6 to 12 fbg. The calculated groundwater gradient typically trends to the south-southwest at approximately 0.12 ft/ft. Groundwater at the site appears to be semi-confined to confined, as indicated by the differences between the depth at which it is first encountered during boring advancement and the measured depth in wells.

Elevated concentrations of gasoline hydrocarbons and oxygenates are present in groundwater at the site. During the second quarter 2005 monitoring event, the highest TPHg concentration detected was 13,000 parts per billion (ppb) in both wells S-1 and S-4. At that time, the maximum benzene and MTBE concentrations in groundwater were 1,900 ppb and 460 ppb, respectively, in S-4. Tert-butyl alcohol (TBA) has been detected in wells S-2, S-4, and S-5 at concentrations of 450, 140, and 3,700 ppb, respectively, during the September 2004 sampling event, the most recent event during which TBA was included in the list of analytes. No other oxygenates have been detected in groundwater at the site.

Groundwater monitoring was discontinued at the site following the second quarter 2005 sampling event, and the site's monitoring wells were abandoned on July 14, 2005 in anticipation of redevelopment construction at the site.

INVESTIGATION PROCEDURES

As proposed in Cambria's August 22, 2005 *Subsurface Investigation Work Plan*, two borings (TB-1 and TB-3) were advanced to investigate the presence and vertical extent of petroleum-hydrocarbon-impacted soil and groundwater from the 1958 UST release (Figure 2). The third proposed soil boring (TB-2) could not be advanced due to shallow refusal caused by buried concrete fill. Due to large gravels, cobbles, and tightly packed surface fill material, the borings could not be hand cleared. Both borings were advanced by a direct-push drill rig and continuously logged for lithologic description. Where possible, soil samples were collected for chemical analyses at the intervals proposed in the work plan and at depths where the first field indications of hydrocarbons were observed. A grab groundwater sample was collected from each boring.

Cambria's Standard Field Procedures for Soil Borings is presented as Attachment A. The details of this subsurface investigation are summarized below.

- Personnel Present:** Ron Barone, Staff Geologist, Cambria.
- Permits:** ACHCSA Drilling Permit # W2005-038 (Attachment B).
- Drilling Company:** Vironex Environmental Field Services (C57 License #705927).
- Drilling Dates:** August 29, 2005
- Drilling Method:** Direct push
- Number of Borings:** Two (TB1 and TB-3). Table 1 presents boring specifications.
- Boring Depths:** Borings TB-1 and TB-3 were advanced to 32 fbg and 22.5 fbg, respectively.
- Groundwater Depths:** Cambria first observed groundwater in borings TB-1 and TB-3 at a depth of approximately 12 fbg.
- Soil Sampling:** Cambria logged soil types using the Unified Soil Classification System and describes the encountered soils on the boring logs presented as Attachment C. Cambria collected soil samples continuously for soil description, possible chemical analyses, and headspace analysis. Cambria screened the soil samples for the presence of organic vapors using a photo-ionization detector (PID) and recorded the PID readings on the boring logs.

Groundwater Sampling: Groundwater was first observed at a depth of approximately 12 fbg in both borings. However, this interval yielded insufficient groundwater for sample collection. Samples were collected at 20.0 fbg in boring TB-1 and at 22.0 fbg in TB-3.

Backfill Method: The borings were backfilled with neat Portland type I/II cement grout to match the existing grade.

Chemical Analyses: State-certified Severn Trent Laboratories of Pleasanton, California analyzed groundwater and selected soil samples for TPHg, BTEX, TBA, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), MTBE, 1,2-dichloroethane and ethylene dibromide by EPA Method 8260B, and for lead by EPA Method 7421. Laboratory analytical reports are included as Attachment D.


Soil Handling: The approximately 0.5 cubic yards of generated soil were stockpiled on site. No other waste was generated during this investigation. On September 20, 2005, the soil was transported to Forward Landfill in Manteca, California for disposal (Attachment E).

INVESTIGATION RESULTS

Soil Analytical Results: As proposed in the work plan, soil samples were collected at approximately 3-foot intervals from borings TB-1 and TB-3. Samples were collected for chemical analysis in all borings.

TPHg was detected in four samples at concentrations ranging from 2.2 ppm in TB-1-7.0 to 1,600 ppm in TB-1-10.5. Benzene was detected in eight samples at concentrations ranging from 0.02 ppm in TB-3-21.0 to 1.5 ppm in TB-1-12.0. Toluene was detected in TB-3-12.0 at a concentration of 0.0081 ppm. Ethylbenzene was detected in five samples at concentrations ranging from 0.0074 ppm in TB-3-21.0 to 3.3 ppm in TB-1-12.0. Xylenes were detected in seven samples at concentrations ranging from 0.021 ppm in TB-3-6.0 to 2.4 ppm in TB-3-12.0. MTBE was detected in sample TB-3-21.0 at a concentration of 0.017 ppm. TBA was detected in sample TB-3-12.0 at a concentration of 0.012 ppm. DIPE was detected in sample TB-3-21.0 at a concentration of 0.012 ppm. Lead was detected in all samples ranging from 3.2 ppm in TB-3-21.0 to 291.0 ppm in sample TB-1-12.0. No other analytes were detected at this time.

Table 2 summarizes soil analytical data, and Figure 2 presents soil boring locations. The laboratory analytical report is included in Attachment D.



Groundwater Analytical Results: Two grab groundwater samples were collected during this investigation. TPHg was detected in both samples at concentrations ranging from 30,000 ppb to 180,000 ppb in TB-1-W1 and TB-3-W1, respectively. Benzene was detected at 4,300 ppb and 22,000 ppb in TB-1 and TB-3-W1, respectively. Toluene was detected at 240 ppb and 9,700 ppb in TB-1-W1 and TB-3-W1, respectively. Ethylbenzene was detected at 2,400 ppb and 5,200 ppb in TB-1-W1 and TB-3-W1, respectively. Xylenes were detected at 2,700 ppb and 25,000 ppb in TB-1-W1 and TB-3-W1, respectively. MTBE was detected at a concentration of 890 ppb in TB-3-W1. DIPE was detected at a concentration of 1,600 ppb in TB-3-W1. Lead was detected at concentrations of 3.37 ppm and 13.4 ppm in TB-3-W1 and TB-1-W1, respectively. No other analytes were detected during this investigation.

Table 3 summarizes groundwater analytical data. The laboratory analytical report is included in Attachment D.

OVER-EXCAVATION ACTIVITIES

Based on results of the subsurface investigation discussed above, Shell directed Cambria to plan and oversee the over-excavation of hydrocarbon-impacted soil in the 1958-era UST-complex area. Because the former UST area is located within the proposed footprint of a new building to be constructed at the site, Cambria's September 13, 2005 *Over-Excavation Work Plan* proposed excavating soil to the extent feasible in order to remove hydrocarbon-impacted soil beneath the building prior to site redevelopment. Based on the analysis results of soil samples collected during the subsurface investigation and the estimated dimensions of the 1958-era UST complex, Cambria estimated the excavation dimensions to be approximately 20 feet long by 25 feet wide by 20 fbg. Cambria proposed collecting soil samples along all four sidewalls of the excavation at depths where PID readings were elevated or where staining and odors were present. To document soil conditions at the excavation limits, Cambria also proposed collecting "confirmation" samples from the sides and bottom of the excavation at its lateral extent and final depth. Attachment A presents Cambria's Excavation Sampling Procedures.

Personnel Present: Ron Barone, Staff Geologist, Cambria.

Over-Excavation and Sampling Dates: On September 20 2005, Cambria directed K.E. Curtis Construction to excavate an area approximately 20 feet long by 25 feet wide and 20 feet deep at

the location of the 1958-era UST complex. Over-excavation limits were defined by field PID readings and observable staining and hydrocarbon odor.


Excavation Observations and Sampling: During excavation, a concrete slab was encountered at approximately 8 fbg. The slab was situated beneath the approximate location of attempted boring TB-2, which was abandoned due to shallow refusal. The slab was approximately 6 feet wide and 6 feet long, varied in thickness between 18 and 36 inches, and had an approximately 2-foot by 2-foot square access port in its middle. Based on how the slab was situated when encountered, it appeared that it was buried as refuse when the tanks were removed in 1971. It is unknown whether it was part of the concrete pump pit described in documents related to the 1958 piping leak or if it was a portion of the product-water separator used as a response to the release.

During excavation, soil was observed for staining and odor and field screened using a PID. Although stained soil was observed on the excavation sidewalls, the staining did not appear to be from hydrocarbon impact, and PID readings did not indicate the presence of volatile organic chemicals in soil. The excavation was completed to the originally proposed dimensions of 20 feet long by 25 feet wide by 20 feet deep. Following excavation, Cambria collected one soil sample from each sidewall and two soil samples from the excavation base. The soil sample locations are shown on Figure 3. No water was observed in the bottom of the excavation. Soil and the concrete slab were removed from these sampling locations using K.E. Curtis' excavator, and samples were collected from the soil within the excavation bucket. Cambria's excavation sampling procedures are presented as Attachment A.

Sample Analyses: A State-certified laboratory (Kiff Analytical LLC of Davis, California) analyzed the soil samples for TPHg, BTEX, TBA, DIPE, ETBE, TAME, and MTBE by EPA Method 8260B. Samples were originally scheduled for diesel and waste oil analysis, but these analyses were not completed due to the laboratory's inability to meet the requested 24-hour turn-around time with their inclusion. ACHCSA approved this change in the analytes list prior to sample collection. Certified laboratory analytical reports are presented as Attachment D.

Waste Handling: Approximately 719.61 tons of soil were generated and stockpiled on site. On September 20 through 23, 2005, the soil was transported to Forward Landfill in Manteca, California for disposal as non-hazardous waste. Attachment E presents a copy of the soil disposal confirmation.

ANALYTICAL RESULTS



Benzene was detected in three soil samples at concentrations ranging from 0.008 ppm to 0.05 ppm in samples TP-6-20.0 and TP-4-20.0, respectively. Ethylbenzene and xylenes were detected in TP-6-20.0 at concentrations of 0.0083 ppm and 0.04 ppm, respectively. TBA was detected in all samples at concentrations ranging from 0.0071 ppm to 0.029 ppm in samples TP-3-20.0 and TP-TP-4-20.0, respectively. DIPE was detected in all samples at concentrations ranging from 0.0053 ppm to 0.023 ppm in samples TP-2-20.0 and TP-1-20.0, respectively. No other analytes were detected. Table 2 summarizes laboratory soil analytical results. Attachment D presents laboratory analytical reports and chain of custody records.

BACKFILL AND COMPACTION

On September 23 and 24, 2005, K.E. Curtis backfilled and compacted the excavation under the supervision of Ron Barone and the observation of Frank Lee, P.E, of Frank Lee & Associates, consultant for the property owner. Approximately 1 inch in diameter gravel was placed in the excavation from its base up to the approximate depth at which groundwater was initially observed during the advancement of borings at the location, to approximately 12 fbg. A geo-fabric was installed atop the gravel base and overlain by clean, imported fill soil. The soil was raised and compacted in approximately 6-inch lifts by K.E. Curtis and tested for 90% relative compaction by Frank Lee, P.E. Compaction was performed to the previous surface level. Frank Lee & Associates' November 1, 2005 *Backfill Excavation Compaction Report* is included as Attachment F.

Despite excavating to a depth of approximately 20 fbg, very little water infiltrated the excavation from the sidewalls or the base. The day after the excavation was completed, approximately 1 foot of water was observed in the excavation. Since no additional soil removal was planned, the contractor did not remove the water prior to backfilling the excavation.

CONCLUSIONS

Two soil borings (TB-1 and TB-3) were advanced to investigate the presence and vertical extent of petroleum-hydrocarbon-impacted soil and groundwater in the vicinity of the 1958-era UST complex. As discussed above, a third proposed boring (TB-2) could not be advanced due to refusal. Soil lithology observed during the subsurface investigation was consistent with that of

previous investigations. Up to 1,600 ppm TPHg and 2.2 ppm benzene were detected in soil collected from these borings, with detections above and below first-encountered groundwater.

Petroleum hydrocarbon and oxygenate impacted groundwater was also encountered during the subsurface investigation. Groundwater was reported to be first encountered at approximately 12.0 fbg in both the investigation borings, though it is likely that the primary water-bearing units begin at approximately 14 fbg, in the gravelly silts, gravelly sands, and silty sands encountered between 14 fbg to approximately 20 to 22 fbg. Soil below this interval yielded insufficient water for sample collection, and the 29- to 32-fbg interval was completely dry. This may indicate that the soils are of relatively low permeability, and impacted groundwater is perched and separated from any deeper water-bearing interval.

Based on the analysis of soil samples collected during the subsurface investigation, approximately 370 cubic yards of soil were excavated from the location of the 1958-era UST complex. The excavation was completed to a depth of 20 fbg in order to remove the BTEX-impacted soil encountered to approximately 18.0 fbg during the investigation. Soil samples from the base and sidewall bottoms of the excavation indicate that chemical concentrations in remaining soil are below the applicable ESLs. Sidewall soil samples were not collected from the interval (approximately 10.5 to 12.0 fbg) in which the TPHg was primarily detected during the investigation because PID readings of soil excavated from the sidewalls in this interval did not indicate the presence of hydrocarbons.

Cambria's August 16, 2005 *Subsurface Investigation Work Plan and Site Conceptual Model* proposed an investigation to determine the vertical extent of petroleum hydrocarbons in groundwater at the site, including the off-site area potentially impacted by the 1958 gasoline release. The current findings do not alter the plan for proposed investigation. The proposed discrete-depth soil and groundwater investigation will provide additional information on the site's lithology and will vertically profile the subsurface contamination. This information will be used to determine the screened intervals for wells to be installed to replace those abandoned in July 2005. After installing the proposed monitoring wells, the groundwater monitoring program will be re-initiated at the site.

SCHEDULE

Cambria is prepared to begin the activities proposed in the *Subsurface Investigation Work Plan and Site Conceptual Model* upon sufficient completion of site redevelopment activities to allow drilling access, ACHCSA's written approval of the work plan, and receipt of drilling permits.

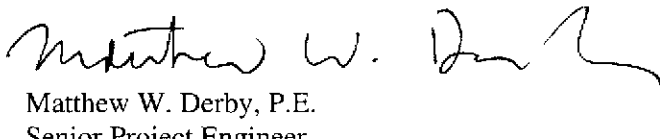
CLOSING

Please call David Gibbs at (510) 420-3363 if you have any questions or comments regarding this report.

Sincerely,
Cambria Environmental Technology, Inc.



David M. Gibbs, P.G.
Project Geologist



Matthew W. Derby, P.E.
Senior Project Engineer



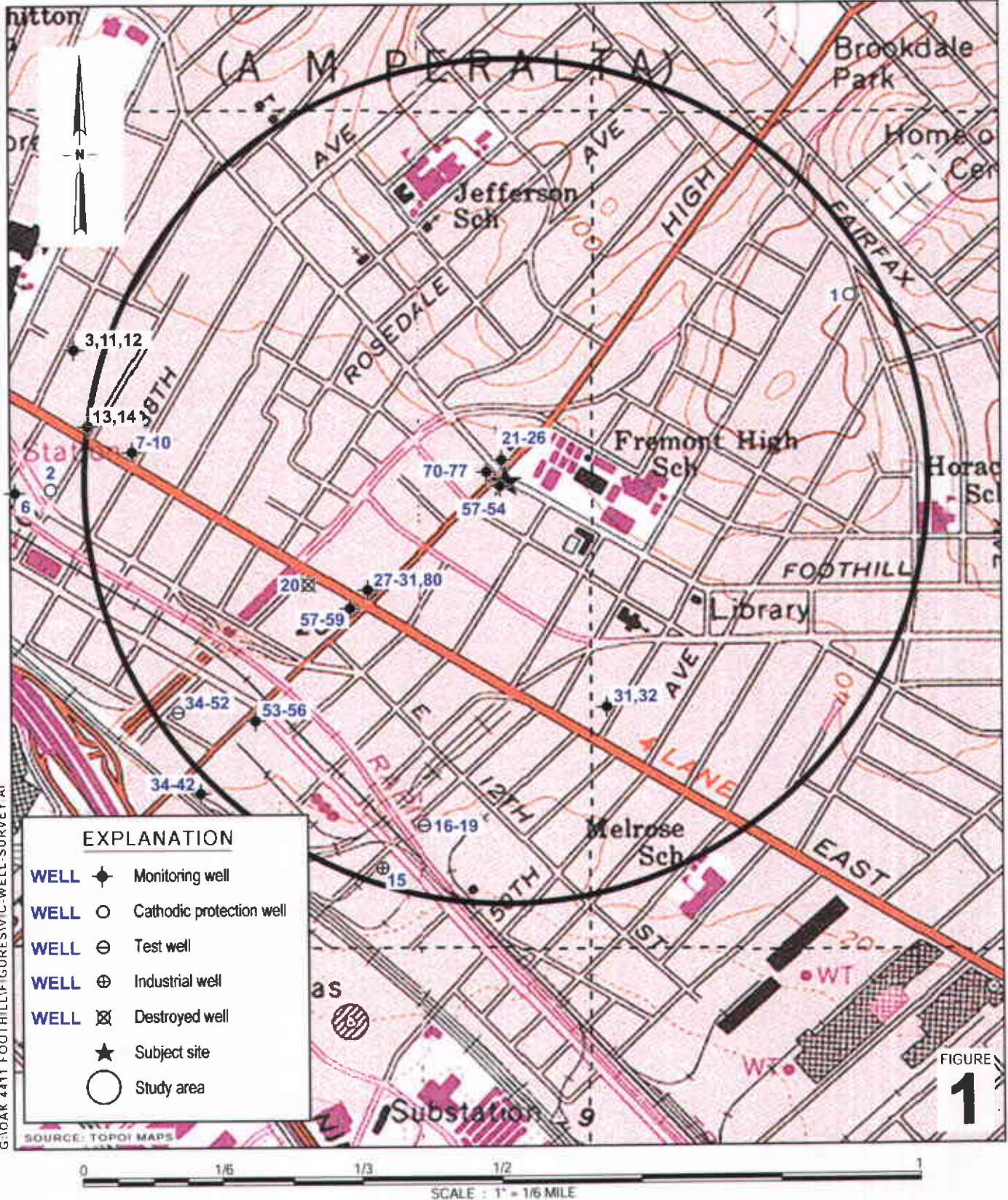
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Soil Boring Location Map
 3 - Over-Excavation Soil Sample Location Map

Tables: 1 - Boring Data
 2 - Soil Analytical Data
 3 - Groundwater Analytical Data

Attachments: A - Standard Field Procedures for Soil Borings and Excavation Sampling
 B - Permit
 C - Boring Logs
 D - Laboratory Analytical Reports
 E - Soil Disposal Confirmation
 F - Inspection of Backfill Excavation Compaction Report

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
 Bill Phua, P.O. Box 10664, Oakland CA 94610-0664

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EXPLANATION	
WELL	★ Monitoring well
WELL	○ Cathodic protection well
WELL	⊙ Test well
WELL	⊕ Industrial well
WELL	⊗ Destroyed well
	★ Subject site
	○ Study area

SOURCE: TOPOI MAPS

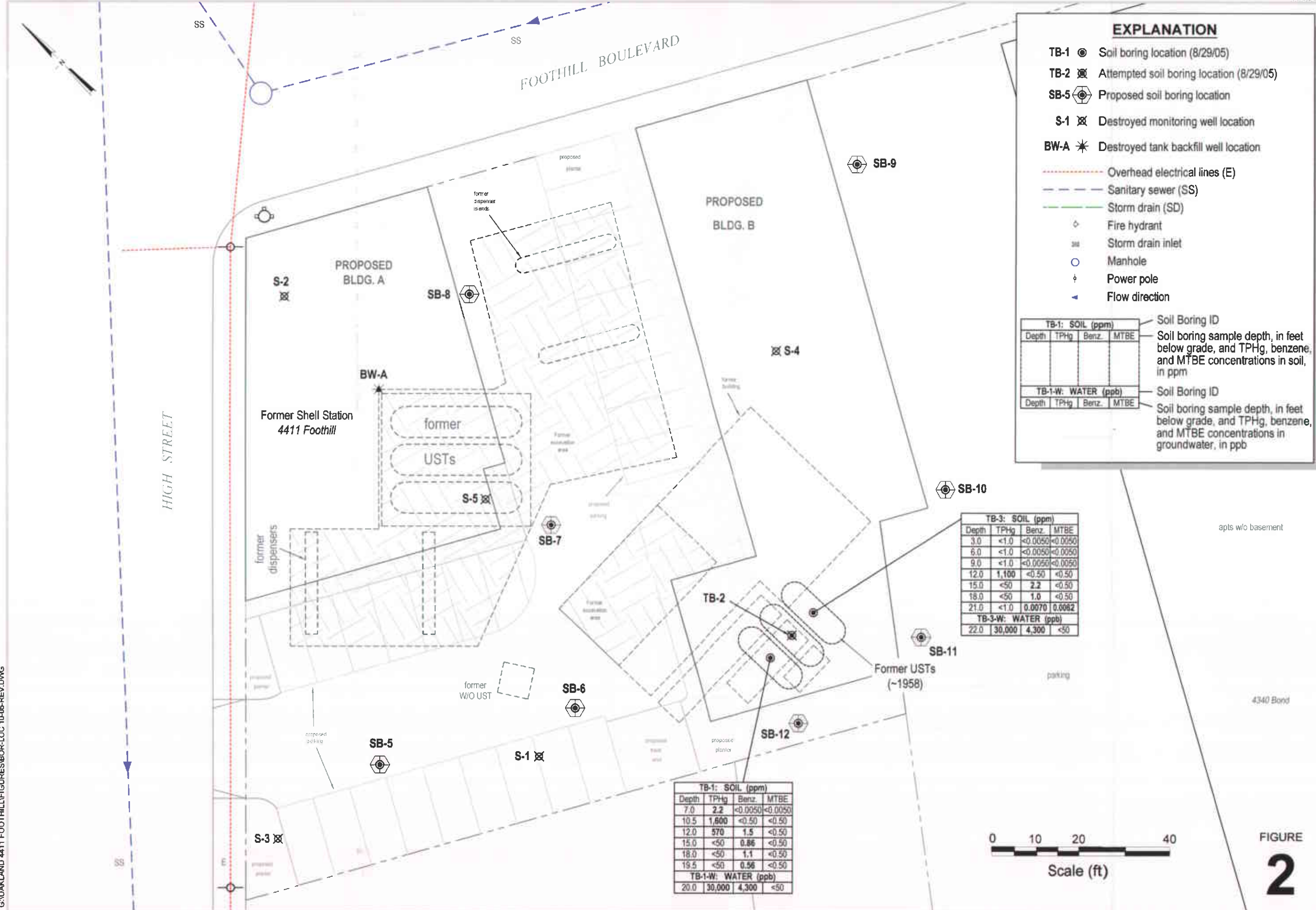
0 1/5 1/3 1/2 1
SCALE : 1" = 1/16 MILE

Former Shell Service Station
 4411 Foothill Boulevard
 Oakland, California
 Incident #98995746



Vicinity/Area Well Survey Map
 (1/2-Mile Radius)

FIGURE 1



EXPLANATION

- TB-1 ● Soil boring location (8/29/05)
- TB-2 ⊗ Attempted soil boring location (8/29/05)
- SB-5 ⊕ Proposed soil boring location
- S-1 ⊗ Destroyed monitoring well location
- BW-A ★ Destroyed tank backfill well location
- Overhead electrical lines (E)
- - - Sanitary sewer (SS)
- - - Storm drain (SD)
- ◇ Fire hydrant
- ⊕ Storm drain inlet
- Manhole
- ⊕ Power pole
- ▶ Flow direction

TB-1: SOIL (ppm)			
Depth	TPHg	Benz.	MTBE

Soil Boring ID

Soil boring sample depth, in feet below grade, and TPHg, benzene, and MTBE concentrations in soil, in ppm

TB-1-W: WATER (ppb)			
Depth	TPHg	Benz.	MTBE

Soil Boring ID

Soil boring sample depth, in feet below grade, and TPHg, benzene, and MTBE concentrations in groundwater, in ppb

TB-3: SOIL (ppm)			
Depth	TPHg	Benz.	MTBE
3.0	<1.0	<0.0050	<0.0050
6.0	<1.0	<0.0050	<0.0050
9.0	<1.0	<0.0050	<0.0050
12.0	1,100	<0.50	<0.50
15.0	<50	2.2	<0.50
18.0	<50	1.0	<0.50
21.0	<1.0	0.0070	0.0082

TB-3-W: WATER (ppb)			
Depth	TPHg	Benz.	MTBE
22.0	30,000	4,300	<50

TB-1: SOIL (ppm)			
Depth	TPHg	Benz.	MTBE
7.0	2.2	<0.0050	<0.0050
10.5	1,600	<0.50	<0.50
12.0	570	1.5	<0.50
15.0	<50	0.86	<0.50
18.0	<50	1.1	<0.50
19.5	<50	0.56	<0.50

TB-1-W: WATER (ppb)			
Depth	TPHg	Benz.	MTBE
20.0	30,000	4,300	<50

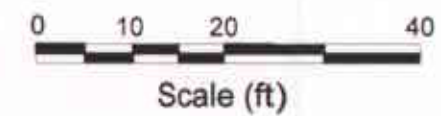
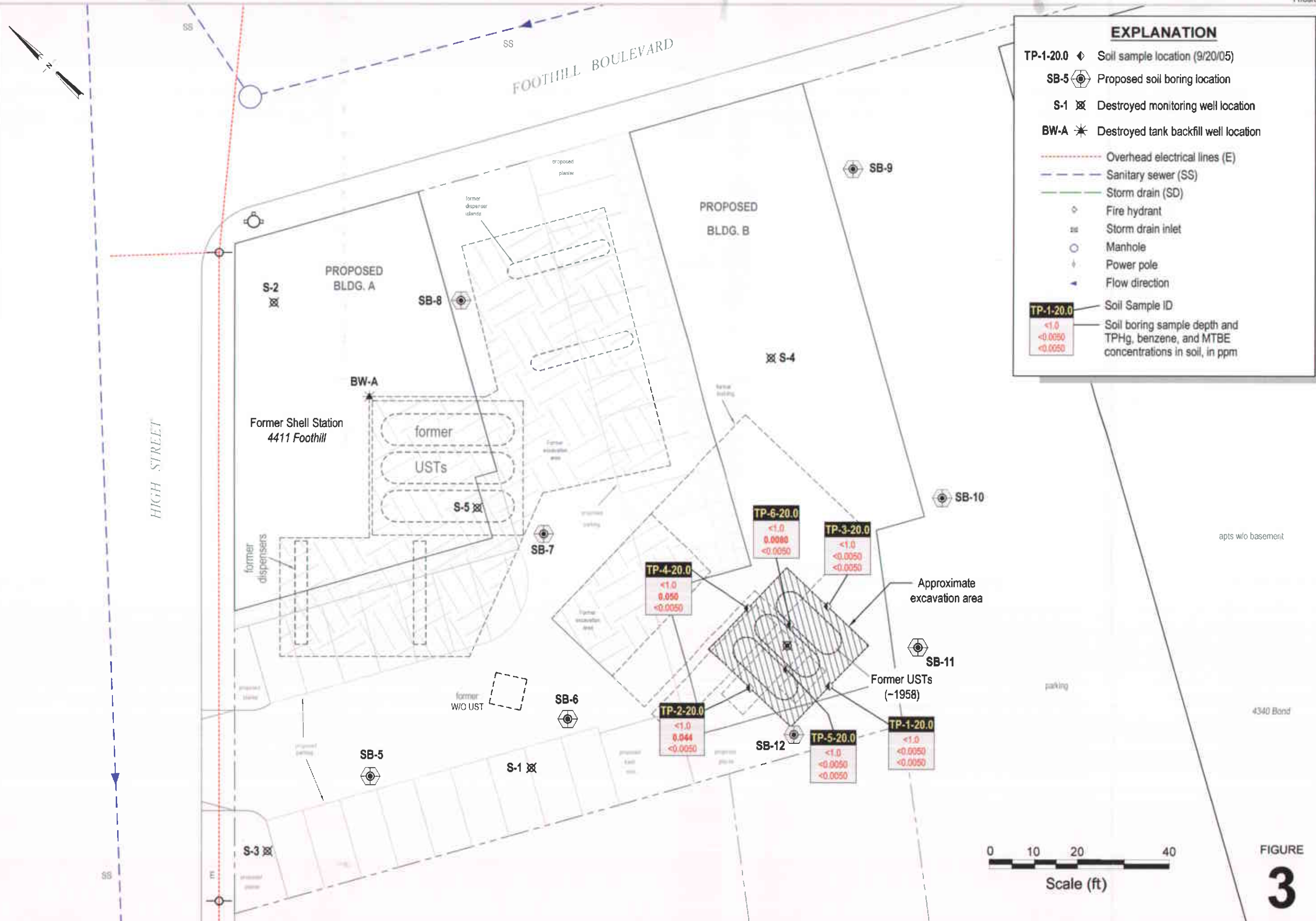


FIGURE
2



EXPLANATION

- TP-1-20.0 ◊ Soil sample location (9/20/05)
- SB-5 ⊕ Proposed soil boring location
- S-1 ⊗ Destroyed monitoring well location
- BW-A ✱ Destroyed tank backfill well location
- Overhead electrical lines (E)
- - - Sanitary sewer (SS)
- - - Storm drain (SD)
- ◊ Fire hydrant
- ≡ Storm drain inlet
- Manhole
- ⋈ Power pole
- Flow direction

TP-1-20.0	Soil Sample ID
<1.0	Soil boring sample depth and TPHg, benzene, and MTBE concentrations in soil, in ppm
<0.0050	
<0.0050	

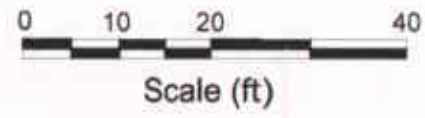


FIGURE
3

Over-Excavation Soil Sample Location Map

September 20, 2005



C A M B R I A

Former Shell Service Station

4411 Foothill Boulevard
Oakland, California
Incident No. 98995746

Table 1. Boring Data - Former Shell-branded Service Station - 4411 Foothill Boulevard, Oakland, CA - Incident # 98995746

Boring ID	Date Advanced	Diameter (inches)	Total Depth (fbg)	Hydorpunch Depth (fbg)	Depth to First Encountered Water (fbg)
TB-1	8/29/2005	2	32	32	12
TB-3	8/29/2005	2	22.5	—	12

— = not performed

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Table 2. Soil Analytical Data - Shell-branded Service Station, 4411 Foothill Boulevard, Oakland, CA, - Incident # 98995746

Sample ID	Depth (fbg)	Date	(parts per million)												
			TPHg	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 DCA	EDB	Lead
TB-1-7.0	7.0	8/29/2005	2.2 ^a	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	21.2
TB-1-10.5	10.5	8/29/2005	1,600	<0.50	<0.50	1.5	0.84	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	10.9
TB-1-12.0	12.0	8/29/2005	570	1.5	<0.50	3.3	1.0	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	291
TB-1-15.0	15.0	8/29/2005	<50	0.86	<0.50	0.79	2.3	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	4.00
TB-1-18.0	18.0	8/29/2005	<50	1.1	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	3.81
TB-1-19.5	19.5	8/29/2005	<50	0.56	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	4.38
TB-3-3.0	3.0	8/29/2005	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	2.22
TB-3-6.0	6.0	8/29/2005	<1.0	<0.0050	<0.0050	<0.0050	0.021	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	16.3
TB-3-9.0	9.0	8/29/2005	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	4.20
TB-3-12.0	12.0	8/29/2005	1,100	<0.50	<0.50	11	48	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	10.2
TB-3-15.0	15.0	8/29/2005	<50	2.2	<0.50	<0.50	1.8	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	5.60
TB-3-18.0	18.0	8/29/2005	<50	1.0	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	3.85
TB-3-21.0	21.0	8/29/2005	<1.0	0.0070	<0.0050	<0.0050	0.009	0.0062	0.021	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	3.20
TP-1-20.0	20.0	9/20/2005	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0085	0.023	<0.0050	<0.0050	---	---	---
TP-2-20.0	20.0	9/20/2005	<1.0	0.044	<0.0050	<0.0050	<0.0050	<0.0050	0.0088	0.0053	<0.0050	<0.0050	---	---	---
TP-3-20.0	20.0	9/20/2005	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0071	0.018	<0.0050	<0.0050	---	---	---
TP-4-20.0	20.0	9/20/2005	<1.0	0.050	<0.0050	<0.0050	<0.0050	<0.0050	0.029	0.0066	<0.0050	<0.0050	---	---	---
TP-5-20.0	20.0	9/20/2005	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013	0.013	<0.0050	<0.0050	---	---	---
TP-6-20.0	20.0	9/20/2005	<1.0	0.0080	<0.0050	0.0083	0.040	<0.0050	0.017	0.012	<0.0050	<0.0050	---	---	---

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B;
 MTBE = Methyl tert-butyl ether analyzed by EPA Method 8260B;
 Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B;
 TBA = tertiary-butanol, analyzed by modified EPA Method 8260B.
 MTBE = Methyl tertiary-butyl ether. Analyzed by EPA Method 8260B and 8260B C6-12. Highest concentration reported.
 DIPE = Di-isopropyl ether, analyzed by modified EPA Method 8260B.
 ETBE = Ethyl tertiary butyl ether, analyzed by modified EPA Method 8260B.
 TAME = Tertiary-amyl methyl ether, analyzed by modified EPA Method 8260B.
 1,2 DCA = 1,2-dichloroethane, analyzed by modified EPA Method 8260B.
 EDB = Ethylene dibromide, analyzed by modified EPA Method 8260B.
 Lead determined by EPA Method 7421
 a - Quantity of unknown hydrocarbon(s) in sample based on gasoline
 <n = Below detection limit of n mg/kg
 --- = Sample not analyzed

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Table 3. Groundwater Analytical Data - Shell-branded Service Station, 4411 Foothill Boulevard, Oakland, CA, - Incident # 98995746

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	(parts per million)							
								MTBE	TBA	DIPE	ETBE	TAME	1,2 DCA	EDB	Lead
TB-1-W1	20.0	8/29/2005	30,000	4,300	240	2400	2,700	<50	<500	<200	<200	<200	<50	<50	13.4
TB-3-W1	22.0	8/29/2005	180,000	22,000	9,700	5,200	25,000	890	<1,000	1,600	<400	<400	<100	<100	3.37

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B;

MTBE = Methyl tert-butyl ether analyzed by EPA Method 8260B;

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B;

TBA = tertiary-butanol, analyzed by modified EPA Method 8260B.

MTBE = Methyl tertiary-butyl ether. Analyzed by EPA Method 8260B and 8260B C6-12. Highest concentration reported.

DIPE = Di-isopropyl ether, analyzed by modified EPA Method 8260B.

ETBE = Ethyl tertiary butyl ether, analyzed by modified EPA Method 8260B.

TAME = Tertiary-amyl methyl ether, analyzed by modified EPA Method 8260B.

1,2 DCA = 1,2-dichloroethane, analyzed by modified EPA Method 8260B.

EDB = Ethylene dibromide, analyzed by modified EPA Method 8260B.

Lead determined by EPA Method 7421

<n = Below detection limit of n mg/kg

--- = sample no analyzed

ATTACHMENT A

**Standard Field Procedures for Soil Borings and Excavation
Sampling**

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STANDARD FIELD PROCEDURES FOR GEOPROBE® SOIL AND GROUNDWATER SAMPLING

This document describes Cambria Environmental Technology's standard field methods for GeoProbe® soil and ground water sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

GeoProbe® soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon® tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

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Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech[®] or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon[®] tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Discrete Depth Soil and Ground Water Sampling

Soil and groundwater samples are collected for lithologic and chemical analysis using a direct driven, dual tube soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. Two nested sampling rods are driven at the same time: a larger diameter outer rod to act as a temporary drive casing and a smaller inner rod to retrieve soil cores. As the rods are advanced the soil is driven into a sample barrel that is attached to the end of the inner rod. The outer rod ensures that the sample is collected from the desired interval by preventing sloughing of the overlying material. After reaching the desired depth the inner rods are removed from the boring and the sleeves containing the soil sample are removed from the inner sample barrel. Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon[®] tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

When collecting groundwater samples, the sample barrel and inner rods are removed from the boring once the targeted water bearing zone has been reached. The drive casing is pulled up from 0.5 to 5 feet to allow groundwater to enter the borehole. Small diameter well casing and screen is then installed in the borehole to facilitate sample collection. The drive casing is then pulled up sufficiently to expose the desired length of screen and samples are collected using a bailer, peristaltic, bladder or inertial pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

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Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe. If the dual tube system is used, the borings are filled to the ground surface with cement grout poured or pumped through the dual tube casing.

F:\TEMPLATE\SOPS\GEOPROBE.DOC

EXCAVATION SAMPLING PROCEDURES

After confirming a release from underground gasoline storage tanks, product piping or pump islands, soil excavation is often done to remove hydrocarbon bearing soils that may pose a threat to ground water quality beneath a site. Soil samples are routinely collected to monitor the progress of the excavation and to confirm that soils containing hydrocarbons above regulatory limits have been completely removed. Cambria has developed standard operating procedures for collecting soil samples during routine excavation operations to ensure that the samples are collected, handled and documented in compliance with State and local regulatory agency regulations.

Excavation Sampling

Prior to collecting soil samples during excavation operations, Cambria field staff screen the removed soils with a portable photoionization detector (PID) to qualitatively assess the presence or absence of volatile hydrocarbons. The removed soil is typically segregated based on hydrocarbon concentration and stockpiled on site on plastic sheeting. When the PID measurements indicate that the hydrocarbon bearing soil has been completely removed, Cambria collects soil samples from the excavation sidewalls and/or bottom for confirmatory analysis at a State certified analytic laboratory.

The soil samples are collected in steam cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. When a backhoe or excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil.

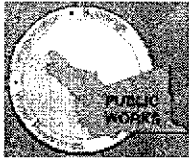
Upon removal from the sampler or the backhoe, the samples are trimmed flush, capped with Teflon tape and plastic end caps, labeled, logged and refrigerated for delivery under chain of custody to a State certified analytic laboratory.

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ATTACHMENT B

Permits

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Id: 1124489839241
Site Location: 4411 Foothill Blvd, Oakland, CA 94601
Project Start Date: 08/29/2005

City of Project Site: Oakland
Completion Date: 08/29/2005

Applicant: Cambria Environmental - Stewart A Dalie IV
5900 Hollis St. Ste. A, Emeryville, CA 94608
Property Owner: Shell Oil Products Company
20945 S. Wilmington, Carson, CA 90801
Client: ** same as Property Owner **

Phone: 510-420-3339
Phone: 707-865-0251

Total Due: \$200.00
Total Amount Paid: \$200.00
Payment Type: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 3 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: other

Work Total: \$200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
* Pending Approval *			3	3.00 in.	40.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Applicant shall contact James Yoo for a inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
4. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

ATTACHMENT C

Boring Logs



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: 510-420-0700
 Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	TB-1
JOB/SITE NAME	Former Shell Branded Station	DRILLING STARTED	29-Aug-05
LOCATION	4411 Foothill Blvd, Oakland	DRILLING COMPLETED	29-Aug-05
PROJECT NUMBER	247-0897	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	Ron Barone	DEPTH TO WATER (First Encountered)	12.0 ft bgs (29-Aug-05)
REVIEWED BY	M. Derby, PE # 55475	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
				4.0	GM		<u>Silty GRAVEL</u> (GM); brown; dry; 50% silt, 50% gravel; no plasticity.	4.0	
206		TB-1- 7.0		5	CL		<u>Sandy CLAY with Gravel</u> (CL); dark gray; dry to moist; 50% clay, 30% sand, 20% gravel; low plasticity.	10.0	
1000		TB-1- 10.5		10	SM		<u>Silty SAND</u> (SM); dark gray; wet; 5% clay, 45% silt, 50% sand; no plasticity.	12.0	
1000		TB-1- 12.0		12.0			<u>Sandy SILT</u> (ML); dark green gray; moist; 30% clay, 55% silt, 15% sand; medium plasticity.	12.0	
1000		TB-1- 15.0		15	ML		<u>Sandy SILT</u> (ML); dark green gray; moist; 15% clay, 60% silt, 25% sand; low plasticity.	19.5	
75		TB-1- 18		18			<u>Gravelly SILT</u> (ML); brown, moist; 5% clay, 60% silt, 10% sand, 25% gravel; no plasticity.	19.5	
560		TB-1- 19.5 TB-1- W		20	SM		<u>Silty SAND</u> (SM); gray; moist; 5% clay, 45% silt, 50% sand; no plasticity.	20.0	
				20.0			Grab groundwater sample collected from temporary well casing		
				25					
				30			No groundwater samples recovered from hydropunch 29' to 32'.		
				32					Bottom of Boring @ 32 ft bgs

WELL LOG (PID) G:\OAKLAND 4411 FOOHILL\GINTGINT.GPJ DEFAULT.GDT 11/2/05



CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	TB-3
JOB/SITE NAME	Former Shell Branded Station	DRILLING STARTED	29-Aug-05
LOCATION	4411 Foothill Blvd, Oakland	DRILLING COMPLETED	29-Aug-05
PROJECT NUMBER	247-0897	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	Ron Barone	DEPTH TO WATER (First Encountered)	12.0 ft bgs (29-Aug-05)
REVIEWED BY	M. Derby, PE # 55475	DEPTH TO WATER (Static)	NA

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0		TB-3-3.0	0			Gravelly SILT (ML) ; brown; dry; 5% clay, 50% silt, 45% gravel; no plasticity.		
0		TB-3-6.0	5	ML		Gravelly SILT (ML) ; dark brown; dry; 5% clay, 65% silt; 30% gravel; no plasticity.		
0		TB-3-9.0	10			SILT (ML) ; dark brown; dry; 15% clay, 85% silt; no plasticity.		
1000		TB-3-12.0	14.0			Sandy SILT (ML) ; grayish brown; moist; 5% clay, 70% silt, 25% sand; no plasticity.	14.0	
1000		TB-3-15.0	17.0	SW		Gravelly SAND (SW) ; gray; moist; 5% silt, 80% sand, 15% gravel; no plasticity.	17.0	
1000		TB-3-18.0	20	SM		Silty SAND (SM) ; gray; moist to wet; 35% silt, 65% sand; no plasticity.		
65		TB-3-21.0	21.0	CL		CLAY (CL) ; brown; dry to moist; 90% clay, 10% silt; low to medium plasticity.	21.0	
		TB-3-W	22.5			Grab groundwater sample collected from temporary well casing	22.5	Bottom of Boring @ 22.5 ft bgs

WELL LOG (PID) G:\OAKLAND\4411_FOOTHILL\GINT\GPI_DEFAULT.GDT_11/2005

ATTACHMENT D

Laboratory Analytical Reports

Cambria Environmental Emeryville

September 06, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0897-011

Project: 98995746

Site: 4411 Foothill Blvd., Oakland, CA

Attached is our report for your samples received on 08/29/2005 14:50

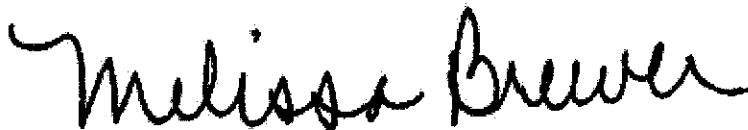
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/13/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-1-10.5	08/29/2005 10:20	Soil	2
TB-1-12.0	08/29/2005 10:40	Soil	3
TB-1-15.0	08/29/2005 10:45	Soil	4
TB-1-18.0	08/29/2005 11:00	Soil	5
TB-1-19.5	08/29/2005 11:10	Soil	6

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09/02/2005 12:58

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville
Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: TB-1-10.5	Lab ID: 2005-08-0828 - 2
Sampled: 08/29/2005 10:20	Extracted: 9/1/2005 16:45
Matrix: Soil	QC Batch#: 2005/09/01-3A.62
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1600	50	mg/Kg	1.00	09/01/2005 16:45	
Benzene	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
Toluene	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
Ethyl benzene	1.5	0.50	mg/Kg	1.00	09/01/2005 16:45	
Total xylenes	0.84	0.50	mg/Kg	1.00	09/01/2005 16:45	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/01/2005 16:45	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/01/2005 16:45	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
EDB	ND	0.50	mg/Kg	1.00	09/01/2005 16:45	
Surrogate(s)						
1,2-Dichloroethane-d4	100.4	53-129	%	1.00	09/01/2005 16:45	
Toluene-d8	122.1	47-136	%	1.00	09/01/2005 16:45	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-12.0	Lab ID:	2005-08-0828 - 3
Sampled:	08/29/2005 10:40	Extracted:	9/1/2005 17:12
Matrix:	Soil	QC Batch#:	2005/09/01-3A.62
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	570	50	mg/Kg	1.00	09/01/2005 17:12	
Benzene	1.5	0.50	mg/Kg	1.00	09/01/2005 17:12	
Toluene	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
Ethyl benzene	3.3	0.50	mg/Kg	1.00	09/01/2005 17:12	
Total xylenes	1.0	0.50	mg/Kg	1.00	09/01/2005 17:12	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/01/2005 17:12	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/01/2005 17:12	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
EDB	ND	0.50	mg/Kg	1.00	09/01/2005 17:12	
Surrogate(s)						
1,2-Dichloroethane-d4	103.7	53-129	%	1.00	09/01/2005 17:12	
Toluene-d8	113.3	47-136	%	1.00	09/01/2005 17:12	

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

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Project: 247-0897-011

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Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-15.0	Lab ID:	2005-08-0828 - 4
Sampled:	08/29/2005 10:45	Extracted:	9/1/2005 17:38
Matrix:	Soil	QC Batch#:	2005/09/01-3A.62
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	1.00	09/01/2005 17:38	
Benzene	0.86	0.50	mg/Kg	1.00	09/01/2005 17:38	
Toluene	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
Ethyl benzene	0.79	0.50	mg/Kg	1.00	09/01/2005 17:38	
Total xylenes	2.3	0.50	mg/Kg	1.00	09/01/2005 17:38	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/01/2005 17:38	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/01/2005 17:38	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
EDB	ND	0.50	mg/Kg	1.00	09/01/2005 17:38	
Surrogate(s)						
1,2-Dichloroethane-d4	92.2	53-129	%	1.00	09/01/2005 17:38	
Toluene-d8	106.2	47-136	%	1.00	09/01/2005 17:38	

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-18.0	Lab ID:	2005-08-0828 - 5
Sampled:	08/29/2005 11:00	Extracted:	9/1/2005 18:04
Matrix:	Soil	QC Batch#:	2005/09/01-3A.62
Analysis Flag: E2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	1.00	09/01/2005 18:04	
Benzene	1.1	0.50	mg/Kg	1.00	09/01/2005 18:04	
Toluene	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
Ethyl benzene	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
Total xylenes	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/01/2005 18:04	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/01/2005 18:04	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
EDB	ND	0.50	mg/Kg	1.00	09/01/2005 18:04	
Surrogate(s)						
1,2-Dichloroethane-d4	85.3	53-129	%	1.00	09/01/2005 18:04	
Toluene-d8	103.8	47-136	%	1.00	09/01/2005 18:04	

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-19.5	Lab ID:	2005-08-0828 - 6
Sampled:	08/29/2005 11:10	Extracted:	9/1/2005 18:30
Matrix:	Soil	QC Batch#:	2005/09/01-3A.62
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	1.00	09/01/2005 18:30	
Benzene	0.56	0.50	mg/Kg	1.00	09/01/2005 18:30	
Toluene	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
Ethyl benzene	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
Total xylenes	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/01/2005 18:30	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/01/2005 18:30	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
EDB	ND	0.50	mg/Kg	1.00	09/01/2005 18:30	
Surrogate(s)						
1,2-Dichloroethane-d4	90.2	53-129	%	1.00	09/01/2005 18:30	
Toluene-d8	103.3	47-136	%	1.00	09/01/2005 18:30	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Soil	QC Batch # 2005/09/01-3A 62
MB: 2005/09/01-3A 62-001		Date Extracted: 09/01/2005 10:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	09/01/2005 10:39	
Benzene	ND	0.50	mg/Kg	09/01/2005 10:39	
Toluene	ND	0.50	mg/Kg	09/01/2005 10:39	
Ethyl benzene	ND	0.50	mg/Kg	09/01/2005 10:39	
Total xylenes	ND	0.50	mg/Kg	09/01/2005 10:39	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	09/01/2005 10:39	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	09/01/2005 10:39	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	09/01/2005 10:39	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	09/01/2005 10:39	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	09/01/2005 10:39	
1,2-DCA	ND	0.50	mg/Kg	09/01/2005 10:39	
EDB	ND	0.50	mg/Kg	09/01/2005 10:39	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	53-129	%	09/01/2005 10:39	
Toluene-d8	106.8	47-136	%	09/01/2005 10:39	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Soil		QC Batch # 2005/09/01-3A.62	
LCS	2005/09/01-3A.62-025	Extracted:	09/01/2005	Analyzed:	09/01/2005 11:25
LCSD	2005/09/01-3A.62-051	Extracted:	09/01/2005	Analyzed:	09/01/2005 11:51

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	11.4	9.88	10	114.0	98.8	14.3	69-129	20		
Toluene	10.9	10.5	10	109.0	105.0	3.7	70-130	20		
Methyl tert-butyl ether (MTBE)	9.56	7.73	10	95.6	77.3	21.2	65-165	20		R4
Surrogates(s)										
1,2-Dichloroethane-d4	304	250	250	121.6	100.0		53-129			
Toluene-d8	289	271	250	115.6	108.4		47-136			

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

R4

RPD exceeded method control limit; % recoveries within limits.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011

98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-1-7.0	08/29/2005 10:15	Soil	1

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-7-0	Lab ID:	2005-08-0828-1
Sampled:	08/29/2005 10:15	Extracted:	9/1/2005 12:23
Matrix:	Soil	QC Batch#:	2005/09/01-1B 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2.2	1.0	mg/Kg	1.00	09/01/2005 12:23	Q1
Benzene	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
Toluene	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
Total xylenes	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	09/01/2005 12:23	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	09/01/2005 12:23	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
1,2-DCA	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
EDB	ND	0.0050	mg/Kg	1.00	09/01/2005 12:23	
Surrogate(s)						
1,2-Dichloroethane-d4	111.4	76-124	%	1.00	09/01/2005 12:23	
Toluene-d8	84.3	75-116	%	1.00	09/01/2005 12:23	

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Soil	QC Batch # 2005/09/01-1B 62
MB: 2005/09/01-1B 62-005			Date Extracted: 09/01/2005 10:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	09/01/2005 10:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	09/01/2005 10:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	09/01/2005 10:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	09/01/2005 10:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	09/01/2005 10:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	09/01/2005 10:05	
1,2-DCA	ND	0.0050	mg/Kg	09/01/2005 10:05	
EDB	ND	0.0050	mg/Kg	09/01/2005 10:05	
Benzene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Toluene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Ethyl benzene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Total xylenes	ND	0.0050	mg/Kg	09/01/2005 10:05	
Surrogates(s)					
1,2-Dichloroethane-d4	89.4	76-124	%	09/01/2005 10:05	
Toluene-d8	94.8	75-116	%	09/01/2005 10:05	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Soil	QC Batch # 2005/09/01-1B.62	
LCS 2005/09/01-1B.62-039	Extracted: 09/01/2005	Analyzed: 09/01/2005 09:39	
LCSD			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0439		0.05	87.8			65-165	20		
Benzene	0.0488		0.05	97.6			69-129	20		
Toluene	0.0479		0.05	95.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	387		500	77.4			76-124			
Toluene-d8	495		500	99.0			75-116			

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Received: 08/29/2005 14:50

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Batch QC Report			
Prep(s)	5030B		Test(s) 8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/09/01-1B.62
MS/MSD			Lab ID: 2005-08-0851-001
MS: 2005/09/01-1B.62-031		Extracted: 09/01/2005	Analyzed: 09/01/2005 11:31
			Dilution: 1.00
MSD: 2005/09/01-1B.62-057		Extracted: 09/01/2005	Analyzed: 09/01/2005 11:57
			Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0548	0.0448	ND	0.048828	112.2	91.4	20.4	65-165	20		R4
Benzene	0.0503	0.0475	ND	0.048828	103.0	96.9	6.1	69-129	20		
Toluene	0.0470	0.0457	ND	0.048828	96.3	93.2	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	534	409		500	106.8	81.8		76-124			
Toluene-d8	517	487		500	103.4	97.4		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R4

RPD exceeded method control limit; % recoveries within limits.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-1-W1	08/29/2005 12:30	Water	7

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-1-W1	Lab ID:	2005-08-0828-7
Sampled:	08/29/2005 12:30	Extracted:	9/1/2005 04:22 9/2/2005 22:35
Matrix:	Water	QC Batch#:	2005/08/31-2B.65 2005/09/02-2A.71
* Analysis Flag: L2, pH: <2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	30000	5000	ug/L	100.00	09/02/2005 22:35	
Benzene	4300	50	ug/L	100.00	09/01/2005 04:22	
Toluene	240	50	ug/L	100.00	09/01/2005 04:22	
Ethylbenzene	2400	50	ug/L	100.00	09/01/2005 04:22	
Total xylenes	2700	100	ug/L	100.00	09/01/2005 04:22	
tert-Butyl alcohol (TBA)	ND	500	ug/L	100.00	09/02/2005 22:35	
Methyl tert-butyl ether (MTBE)	ND	50	ug/L	100.00	09/02/2005 22:35	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	100.00	09/02/2005 22:35	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	09/02/2005 22:35	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	09/02/2005 22:35	
1,2-DCA	ND	50	ug/L	100.00	09/02/2005 22:35	
EDB	ND	50	ug/L	100.00	09/02/2005 22:35	
Surrogate(s)						
1,2-Dichloroethane-d4	111.9	73-130	%	100.00	09/01/2005 04:22	
1,2-Dichloroethane-d4	88.5	73-130	%	100.00	09/02/2005 22:35	
Toluene-d8	92.5	81-114	%	100.00	09/01/2005 04:22	
Toluene-d8	86.8	81-114	%	100.00	09/02/2005 22:35	

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09/05/2005 13:16

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/08/31-2B-65
MB: 2005/08/31-2B-65-042			Date Extracted: 08/31/2005 19:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/31/2005 19:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/31/2005 19:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/31/2005 19:42	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/31/2005 19:42	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/31/2005 19:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/31/2005 19:42	
1,2-DCA	ND	0.5	ug/L	08/31/2005 19:42	
EDB	ND	0.5	ug/L	08/31/2005 19:42	
Benzene	ND	0.5	ug/L	08/31/2005 19:42	
Toluene	ND	0.5	ug/L	08/31/2005 19:42	
Ethylbenzene	ND	0.5	ug/L	08/31/2005 19:42	
Total xylenes	ND	1.0	ug/L	08/31/2005 19:42	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	73-130	%	08/31/2005 19:42	
Toluene-d8	96.8	81-114	%	08/31/2005 19:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Water	QC Batch # 2005/09/02-2A.71
MB: 2005/09/02-2A.71-013			Date Extracted: 09/02/2005 17:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/02/2005 17:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/02/2005 17:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/02/2005 17:13	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/02/2005 17:13	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/02/2005 17:13	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/02/2005 17:13	
1,2-DCA	ND	0.5	ug/L	09/02/2005 17:13	
EDB	ND	0.5	ug/L	09/02/2005 17:13	
Benzene	ND	0.5	ug/L	09/02/2005 17:13	
Toluene	ND	0.5	ug/L	09/02/2005 17:13	
Ethylbenzene	ND	0.5	ug/L	09/02/2005 17:13	
Total xylenes	ND	1.0	ug/L	09/02/2005 17:13	
Surrogates(s)					
1,2-Dichloroethane-d4	89.6	73-130	%	09/02/2005 17:13	
Toluene-d8	88.8	81-114	%	09/02/2005 17:13	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(S): 8260B
Laboratory Control Spike	Water		QC Batch #: 2005/08/31-2B-65
LCS 2005/08/31-2B-65-015	Extracted: 08/31/2005		Analyzed: 08/31/2005 19:15
LCSD			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.3		25	81.2			65-165	20		
Benzene	23.7		25	94.8			69-129	20		
Toluene	23.2		25	92.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	450		500	90.0			73-130			
Toluene-d8	501		500	100.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/09/02-2A-71			
LCS 2005/09/02-2A-71-048			Extracted: 09/02/2005			Analyzed: 09/02/2005 15:48			
LCSD									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.5		25	102.0			65-165	20		
Benzene	25.1		25	100.4			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406		500	81.2			73-130			
Toluene-d8	439		500	87.8			81-114			

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: David Gibbs

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/08/31-2B.65
MS/MSD			Lab ID: 2005-08-0612-007
MS:	2005/08/31-2B.65-030	Extracted: 09/01/2005	Analyzed: 09/01/2005 00:30 Dilution: 1.00
MSD:	2005/08/31-2B.65-056	Extracted: 09/01/2005	Analyzed: 09/01/2005 00:56 Dilution: 1.00
Sample / Analysis Flag(s): MS: H1MSD: H1 (See Legend and Note Section)			

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	27.0	25.4	ND	25	108.0	101.6	6.1	65-165	20		
Benzene	26.7	24.7	ND	25	106.8	98.8	7.8	69-129	20		
Toluene	25.6	25.2	ND	25	102.4	100.8	1.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	524	535		500	104.8	107.0		73-130			
Toluene-d8	491	492		500	98.2	98.4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS /MSD)	Water	QC Batch #	2005/09/02-2A-71
MS/MSD		Lab ID	2005-08-0635-004
MS:	2005/09/02-2A-71-040	Extracted:	09/02/2005
		Analyzed:	09/02/2005 17:40
		Dilution:	4.00
MSD:	2005/09/02-2A-71-007	Extracted:	09/02/2005
		Analyzed:	09/02/2005 18:07
		Dilution:	4.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	375	379	270	100	105.0	109.0	3.7	65-165	20		
Benzene	105	110	7.59	100	97.4	102.4	5.0	69-129	20		
Toluene	97.4	100	0.872	100	96.5	99.1	2.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	408	407		500	81.6	81.4		73-130			
Toluene-d8	458	451		500	91.6	90.2		81-114			

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09/05/2005 13:16

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011
98995746

Received: 08/29/2005 14:50

Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

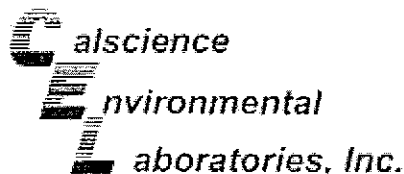
Analysis Flag

H1

Extracted out of holding time.

L2

Reporting limits were raised due to high level of analyte present in the sample.



September 01, 2005

Melissa Brewer
Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Subject: **Calscience Work Order No.: 05-08-1868**
Client Reference: 2005-08-0828 / 247-0897-011 / 98995746

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/30/2005 and analyzed in accordance with the attached chain-of-custody.

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

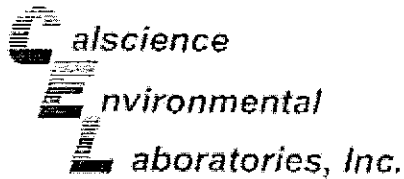
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Ranjit K. Clarke'.

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

A handwritten signature in black ink, likely belonging to Ranjit Clarke, located at the bottom left of the page.



Analytical Report

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/30/05
Work Order No: 05-08-1868
Preparation: EPA 3050B
Method: EPA 7421

Project: 2005-08-0828 / 247-0897-011 / 98995746

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-7.0	05-08-1868-1	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	21.2	1.2	5		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-10.5	05-08-1868-2	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	10.9	1.2	4.98		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-12.0	05-08-1868-3	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	291	25	99.82		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-15.0	05-08-1868-4	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	4.00	1.25	5		mg/kg

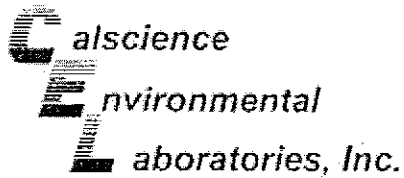
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TB-1-18.0	05-08-1868-5	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	3.81	1.25	4.98		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-19.5	05-08-1868-6	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	4.38	1.25	5		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/30/05
Work Order No: 05-08-1868
Preparation: EPA 3050B
Method: EPA 7421

Project: 2005-08-0828 / 247-0897-011 / 98995746

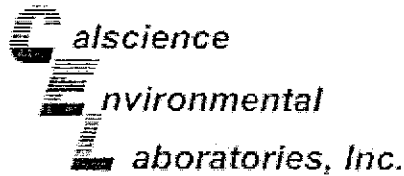
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-07-021-169	N/A	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.250	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Analytical Report

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/30/05
Work Order No: 05-08-1868
Preparation: EPA 3020A Total
Method: EPA 7421

Project: 2005-08-0828 / 247-0897-011 / 98995746

Page 1 of 1

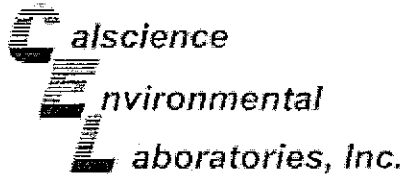
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-1-WI	05-08-1868-7	08/29/05	Aqueous	08/31/05	08/31/05	050831L02

Parameter	Result	RL	DF	Qual	Units
Lead	13.4	1.0	200		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-07-022-304	N/A	Aqueous	08/31/05	08/31/05	050831L02

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00500	1		mg/L

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/30/05
Work Order No: 05-08-1868
Preparation: EPA 3050B
Method: EPA 7421

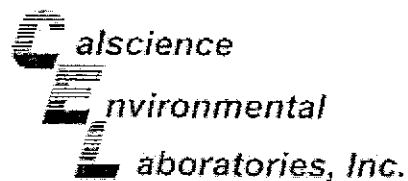
Project 2005-08-0828 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
TB-1-15.0	Solid	GFAA	08/31/05	08/31/05	050831901

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	81	83	50-130	1	0-20	

RPD - Relative Percent Difference CL - Control Limit

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Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
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Pleasanton, CA 94566-4756

Date Received: 08/30/05
Work Order No: 05-08-1868
Preparation: EPA 3020A Total
Method: EPA 7421

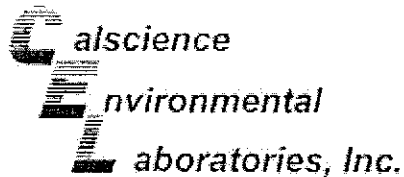
Project 2005-08-0828 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSO Batch Number
05-08-1940-8	Aqueous	GFAA	08/31/05	08/31/05	050031P02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	100	50-130	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit

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Quality Control - LCS/LCS Duplicate

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 Pleasanton, CA 94566-4756

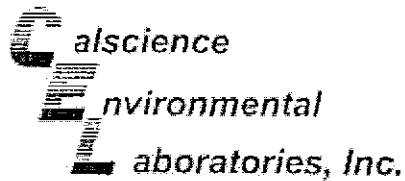
Date Received: N/A
 Work Order No: 05-08-1868
 Preparation: EPA 3050B
 Method: EPA 7421

Project: 2005-08-0828 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-07-021-169	Solid	GFAA	08/31/05	08/31/05	050831L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	100	50-130	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate

Sewern Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: N/A
Work Order No: 05-08-1858
Preparation: EPA 3020A Total
Method: EPA 7421

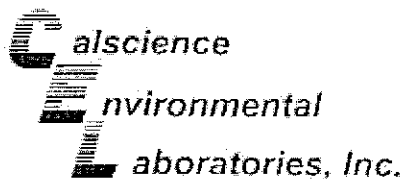
Project: 2005-08-0828 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-022-304	Aqueous	GFAA	08/31/05	08/31/05	050831L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	104	103	50-130	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit.

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Glossary of Terms and Qualifiers

Work Order Number: 05-08-1868

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

1868



STL

Chain of Custody

Date Shipped: 8/29/2005

2005-08-0828 - 1

From:
STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To:
CalScience Analytical Laboratory
7440 Lincoln Way
Garden Grove, CA 92841

Project Manager: Melissa Brewer
Phone: Ext.
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (714) 895-5494 Ext.
Fax: () -
Contact: Sample Control
Phone: (714) 895-5494 Ext.

CL Submission #: 2005-08-0828
CL PD #:

Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122

Client Sample ID	Sample ID	Time	Method
TB-1-7.0	1	8/29/2005 10:15:00AM	Soil
EDF Field ID: TB-1-7.0			
Subcontract - Others /LEAD BY METHOD 7421/			5 Day
TB-1-10.5	2	8/29/2005 10:20:00AM	Soil
EDF Field ID: TB-1-10.5			
Subcontract - Others /LEAD BY METHOD 7421/			5 Day
TB-1-12.0	3	8/29/2005 10:40:00AM	Soil
EDF Field ID: TB-1-12.0			
Subcontract - Others /LEAD BY METHOD 7421/			5 Day
TB-1-15.0	4	8/29/2005 10:45:00AM	Soil
EDF Field ID: TB-1-15.0			
Subcontract - Others /LEAD BY METHOD 7421/			5 Day

RELINQUISHED BY: 1.
Signature: [Signature] Time: 15:40
Printed Name: J. Pittford Date: 8-29
Company: STL

RELINQUISHED BY: 2.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.
Signature: [Signature] Time: 8/30/05
Printed Name: Date: 12:16
Company: _____

RECEIVED BY: 1.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 2.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3.
Signature: [Signature] Time: 12:16
Printed Name: Sheriforne Date: 8/30/05
Company: CSE

1868



STL

Chain of Custody

Date Shipped: 8/29/2005

2005-08-0828 - 1

From: STL San Francisco (CL)
1720 Quarry Lane
Pleasanton, CA 94586-4756

To: CalScience Analytical Laboratory
7440 Lincoln Way
Garden Grove, CA 92841

Project Manager: Melissa Brewer
Phone: (714) 895-5494 Ext. 0
Fax: (925) 484-1095
Email: mbrewer@stl-inc.com

Contact: Sample Control
Phone: (714) 895-5494 Ext.

CL Submission #: 2005-08-0828
CL PO #:
Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122

EDF Field ID	Subcontract - Others	Quantity	Time	Material	Notes
TB-1-18.0		5	8/29/2005 11:00:00AM	Soil	
EDF Field ID: TB-1-18.0					
	Subcontract - Others				5 Day
	/LEAD BY METHOD 7421Y				
TB-1-19.5		6	8/29/2005 11:10:00AM	Soil	
EDF Field ID: TB-1-19.5					
	Subcontract - Others				5 Day
	/LEAD BY METHOD 7421Y				
TB-1-WI		7	8/29/2005 12:30:00PM	Water	
EDF Field ID: TB-1-WI					
	Subcontract - Others				5 Day
	/LEAD BY METHOD 7421Y				

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1
Signature: [Signature] Time: 15:40
Printed Name: [Name] Date: 8-29
Company: STL

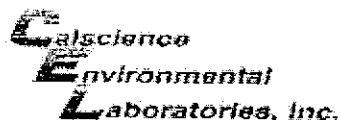
RELINQUISHED BY: 2
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3
Signature: [Signature] Time: 12:16
Printed Name: [Name] Date: 8/30/05
Company: _____

RECEIVED BY: 1
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 2
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3
Signature: [Signature] Time: 12:16
Printed Name: [Name] Date: 8/30/05
Company: CCL



WORK ORDER #: 05 - 08 - 1868

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STL

DATE: 8/30/05

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- 3.2 °C IR thermometer.
- Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Applicable (N/A): 1
Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>/</u>		
Sample container label(s) consistent with custody papers.....	<u>/</u>		
Sample container(s) intact and good condition.....	<u>[Signature]</u>	<u>/</u>	
Correct containers for analyses requested.....	<u>/</u>		
Proper preservation noted on sample label(s).....	<u>[Signature]</u>	<u>/</u>	
VOA vial(s) free of headspace.....	<u>/</u>		
Tedlar bag(s) free of condensation.....			<u>/</u>

Initial: [Signature]

COMMENTS:

Received 2 40mL Vials preserved w/ HCl for TB-1-WI, instead of poly w/ HNO3 (for lead by 7421). (SP)

Ranjit Clarke

From: Brewer, Melissa [MBrewer@stl-inc.com]
Sent: Wednesday, August 31, 2005 11:36 AM
To: Ranjit Clarke
Subject: 2005-08-0828

This project was supposed to be sent on a rush due 9/1, but Sample Control is a bit confused about sending sub-COCs when it comes to rush work. Can we get these by 9/1??

Melissa Brewer
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

8/31/2005

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT. KCAUSTON

2005-08-0828

Dennis Brown

INCIDENT NUMBER (S&E ONLY)
 0 8 9 9 6 7 4 6
 SAP/CRMT NUMBER (TS/CRMT)

DATE: 8/29/2005

PAGE: 1 of 1

CLIENT COMPANY Cambria Environmental Technology, Inc. ADDRESS: 5990 Hollis Street, Suite A, Emeryville, CA 94608 CONTACT CONTACT (Personnel Only) (Print Name): David Gibbs TELEPHONE: 510.420.3359 FAX: 510.420.9170 EMAIL: dgibbs@cambria-env.com		LABORATORY ADDRESS 4411 Foothill Blvd, Oakland, CA PHONE NO: (415) 420-9342 SUPPLIER NAME(S) (Print): Barone		GENERAL INFO T0604100122 EMAIL: shell.em.edf@cambria-env.com CONTACT PERSON NO: 247-0897-011	
--	--	--	--	--	--

TURNAROUND TIME (BUSINESS DAYS)
 30 DAYS 5 DAYS 72 HOURS 48 HOURS 34 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS:

LA - RWQCB REPORT FORMAT UST AGENCY: _____

COMMITTEE CONFIRMATION - HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED

cc lab report to: tbarone@cambria-env.com

RUSH

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (40/50m)	BTEX	MTBE (5.0 ppb RL)	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by except	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Lead <input type="checkbox"/> 4142 <input type="checkbox"/> TELP	LUFS <input type="checkbox"/> Fuel <input type="checkbox"/> 4142 <input type="checkbox"/> TELP	CAMIT <input type="checkbox"/> Type <input type="checkbox"/> 4142 <input type="checkbox"/> TELP	Test for Disposal	Lead by Method 7421	TEMPERATURE ON RECEIPT (°C)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																					
	TB-1-7.0	8/21	1015	SO	1	X		X			X	X										X		
	TB-1-10.5		1020	SO	1	X	X				X	X										X		
	TB-1-12.0		1040	SO	1	X	X				X	X										X		
	TB-1-15.0		1015	SO	1	X	X				X	X										X		
	TB-1-18.0		1100	SO	1	X	X				X	X										X		
	TB-1-19.5		1140	SO	1	X	X				X	X										X		
	TB-1-W1		1230	W	5	X	X				X	X										X		HCl

Prepared by (Signature): <i>[Signature]</i> Received by (Signature): <i>[Signature]</i> Date: 8/24/2005 Time: 1450	Prepared by (Signature): <i>[Signature]</i> Received by (Signature): <i>[Signature]</i> Date: 8/29/05 Time: 1525
--	--

10/10/04 (2nd Edition) 10/10/04 (2nd Edition)

Cambria Environmental Emeryville

September 07, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0897-011

Project: 98995746

Site: 4411 Foothill Blvd., Oakland, CA

Attached is our report for your samples received on 08/30/2005 10:10

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/14/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-3-W1	08/29/2005 16:30	Water	8

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: TB-3-W1	Lab ID: 2005-08-0851-8
Sampled: 08/29/2005 16:30	Extracted: 9/1/2005 12:17
Matrix: Water	QC Batch#: 2005/09/01-1A-65
Analysis Flag: L2, pH: 7 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	180000	10000	ug/L	200.00	09/01/2005 12:17	
Benzene	22000	100	ug/L	200.00	09/01/2005 12:17	
Toluene	9700	100	ug/L	200.00	09/01/2005 12:17	
Ethylbenzene	5200	100	ug/L	200.00	09/01/2005 12:17	
Total xylenes	25000	200	ug/L	200.00	09/01/2005 12:17	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	200.00	09/01/2005 12:17	
Methyl tert-butyl ether (MTBE)	890	100	ug/L	200.00	09/01/2005 12:17	
Di-isopropyl Ether (DIPE)	1600	400	ug/L	200.00	09/01/2005 12:17	J1
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	09/01/2005 12:17	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	09/01/2005 12:17	
1,2-DCA	ND	100	ug/L	200.00	09/01/2005 12:17	
EDB	ND	100	ug/L	200.00	09/01/2005 12:17	
Surrogate(s)						
1,2-Dichloroethane-d4	113.4	73-130	%	200.00	09/01/2005 12:17	
Toluene-d8	100.4	81-114	%	200.00	09/01/2005 12:17	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/09/01-1A-65
MB: 2005/09/01-1A-65-037		Date Extracted: 09/01/2005 09:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/01/2005 09:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/01/2005 09:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/01/2005 09:37	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/01/2005 09:37	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/01/2005 09:37	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/01/2005 09:37	
1,2-DCA	ND	0.5	ug/L	09/01/2005 09:37	
EDB	ND	0.5	ug/L	09/01/2005 09:37	
Benzene	ND	0.5	ug/L	09/01/2005 09:37	
Toluene	ND	0.5	ug/L	09/01/2005 09:37	
Ethylbenzene	ND	0.5	ug/L	09/01/2005 09:37	
Total xylenes	ND	1.0	ug/L	09/01/2005 09:37	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	73-130	%	09/01/2005 09:37	
Toluene-d8	95.8	81-114	%	09/01/2005 09:37	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report									
Prep(s) 5030B					Test(s) 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/09/01-1A-65			
LCS: 2005/09/01-1A-65-011			Extracted: 09/01/2005			Analyzed: 09/01/2005 09:11			
LCSD:									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.0		25	80.0			65-165	20		
Benzene	24.5		25	98.0			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	428		500	85.6			73-130			
Toluene-d8	505		500	101.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/09/01-1A.65
MS/MSD		Lab ID:	2005-08-0633-001
MS: 2005/09/01-1A.65-033	Extracted: 09/01/2005	Analyzed:	09/01/2005 10:33
		Dilution:	1.00
MSD: 2005/09/01-1A.65-059	Extracted: 09/01/2005	Analyzed:	09/01/2005 10:59
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	30.9	31.6	5.87	25	100.1	102.9	2.8	65-165	20		
Benzene	26.6	29.0	2.24	25	97.4	107.0	9.4	69-129	20		
Toluene	27.0	27.9	ND	25	108.0	111.6	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	467	505		500	93.4	101.0		73-130			
Toluene-d8	504	532		500	100.8	106.4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

J1

J = EPA Flag - Estimated Value;
DX = Value < lowest standard, but > than MDL.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-3-12.0	08/29/2005 16:08	Soil	4
TB-3-15.0	08/29/2005 16:10	Soil	5
TB-3-18.0	08/29/2005 16:21	Soil	6

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

 5900 Hollis Street, Ste. A
 Emeryville, CA 94608
 Phone: (510) 420-3363 Fax: (510) 420-9170

 Project: 247-0897-011
 98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-12.0	Lab ID:	2005-08-0851-4
Sampled:	08/29/2005 16:08	Extracted:	9/5/2005 22:50 9/7/2005 14:05
Matrix:	Soil	QC Batch#:	2005/09/05-2A.62 2005/09/05-2A.62
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1100	50	mg/Kg	1.00	09/05/2005 22:50	
Benzene	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
Toluene	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
Ethyl benzene	11	0.50	mg/Kg	1.00	09/05/2005 22:50	
Total xylenes	48	0.50	mg/Kg	1.00	09/05/2005 22:50	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/07/2005 14:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/05/2005 22:50	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
EDB	ND	0.50	mg/Kg	1.00	09/05/2005 22:50	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	53-129	%	1.00	09/07/2005 14:05	
1,2-Dichloroethane-d4	91.8	53-129	%	1.00	09/05/2005 22:50	
Toluene-d8	111.0	47-136	%	1.00	09/07/2005 14:05	
Toluene-d8	96.7	47-136	%	1.00	09/05/2005 22:50	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/07/2005 15:32

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

 5900 Hollis Street, Ste. A
 Emeryville, CA 94608
 Phone: (510) 420-3363 Fax: (510) 420-9170

 Project: 247-0897-011
 98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-15.0	Lab ID:	2005-08-0851-5
Sampled:	08/29/2005 16:10	Extracted:	9/2/2005 10:43
Matrix:	Soil	QC Batch#:	2005/09/01-4A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	1.00	09/02/2005 10:43	
Benzene	2.2	0.50	mg/Kg	1.00	09/02/2005 10:43	
Toluene	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
Ethyl benzene	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
Total xylenes	1.8	0.50	mg/Kg	1.00	09/02/2005 10:43	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/02/2005 10:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/02/2005 10:43	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
EDB	ND	0.50	mg/Kg	1.00	09/02/2005 10:43	
Surrogate(s)						
1,2-Dichloroethane-d4	104.5	53-129	%	1.00	09/02/2005 10:43	
Toluene-d8	120.7	47-136	%	1.00	09/02/2005 10:43	

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09/07/2005 15:32

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-18.0	Lab ID:	2005-08-0851-6
Sampled:	08/29/2005 16:21	Extracted:	09/02/2005 11:09
Matrix:	Soil	QC Batch#:	2005/09/01-4A-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	1.00	09/02/2005 11:09	
Benzene	1.0	0.50	mg/Kg	1.00	09/02/2005 11:09	
Toluene	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
Ethyl benzene	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
Total xylenes	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	09/02/2005 11:09	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	09/02/2005 11:09	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
1,2-DCA	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
EDB	ND	0.50	mg/Kg	1.00	09/02/2005 11:09	
Surrogate(s)						
1,2-Dichloroethane-d4	80.7	53-129	%	1.00	09/02/2005 11:09	
Toluene-d8	96.8	47-136	%	1.00	09/02/2005 11:09	

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2005/09/01-4A.62	
MB: 2005/09/01-4A.62-057				Date Extracted: 09/06/2005 17:57	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	09/06/2005 17:57	
Benzene	ND	0.50	mg/Kg	09/06/2005 17:57	
Toluene	ND	0.50	mg/Kg	09/06/2005 17:57	
Ethyl benzene	ND	0.50	mg/Kg	09/06/2005 17:57	
Total xylenes	ND	0.50	mg/Kg	09/06/2005 17:57	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	09/06/2005 17:57	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	09/06/2005 17:57	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	09/06/2005 17:57	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	09/06/2005 17:57	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	09/06/2005 17:57	
1,2-DCA	ND	0.50	mg/Kg	09/06/2005 17:57	
EDB	ND	0.50	mg/Kg	09/06/2005 17:57	
Surrogates(s)					
1,2-Dichloroethane-d4	85.2	53-129	%	09/06/2005 17:57	
Toluene-d8	106.8	47-136	%	09/06/2005 17:57	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/09/05-2A 62
MB: 2005/09/05-2A 62-041			Date Extracted: 09/07/2005 11:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	09/07/2005 11:59	
Benzene	ND	0.50	mg/Kg	09/07/2005 11:59	
Toluene	ND	0.50	mg/Kg	09/07/2005 11:59	
Ethyl benzene	ND	0.50	mg/Kg	09/07/2005 11:59	
Total xylenes	ND	0.50	mg/Kg	09/07/2005 11:59	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	09/07/2005 11:59	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	09/07/2005 11:59	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	09/07/2005 11:59	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	09/07/2005 11:59	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	09/07/2005 11:59	
1,2-DCA	ND	0.50	mg/Kg	09/07/2005 11:59	
EDB	ND	0.50	mg/Kg	09/07/2005 11:59	
Surrogates(s)					
1,2-Dichloroethane-d4	114.0	53-129	%	09/07/2005 11:59	
Toluene-d8	114.4	47-136	%	09/07/2005 11:59	

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09/07/2005 15:32

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Soil	QC Batch # 2005/09/01-4A.62	
LCS: 2005/09/01-4A.62-023	Extracted: 09/06/2005	Analyzed: 09/06/2005 18:23	
LCSD: 2005/09/01-4A.62-050	Extracted: 09/06/2005	Analyzed: 09/06/2005 18:50	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	11.7	10.6	10	117.0	106.0	9.9	69-129	20		
Toluene	10.2	9.40	10	102.0	94.0	8.2	70-130	20		
Methyl tert-butyl ether (MTBE)	10.5	9.30	10	105.0	93.0	12.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	206	176	250	82.4	70.4		53-129			
Toluene-d8	263	229	250	105.2	91.6		47-136			

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report										
Prep(s): 5030B					Test(s): 8260B					
Laboratory Control Spike			Soil		QC Batch # 2005/09/05-2A-62					
LCS	2005/09/05-2A-62-007		Extracted: 09/05/2005		Analyzed: 09/05/2005 14:07					
LCSD	2005/09/05-2A-62-033		Extracted: 09/05/2005		Analyzed: 09/05/2005 14:33					
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	6.94	7.29	10	69.4	72.9	4.9	69-129	20		
Toluene	8.21	8.46	10	82.1	84.6	3.0	70-130	20		
Methyl tert-butyl ether (MTBE)	8.12	8.74	10	81.2	87.4	7.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	169	182	250	67.6	72.8		53-129			
Toluene-d8	225	246	250	90.0	98.4		47-136			

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Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-3-3.0	08/29/2005 15:40	Soil	1
TB-3-6.0	08/29/2005 15:50	Soil	2
TB-3-W1	08/29/2005 16:30	Water	8

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09/07/2005 12:09

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-3.0	Lab ID:	2005-08-0851 - 1
Sampled:	08/29/2005 15:40	Extracted:	9/1/2005 11:05
Matrix:	Soil	QC Batch#:	2005/09/01-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	09/01/2005 11:05	
Benzene	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
Toluene	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	09/01/2005 11:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	09/01/2005 11:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
1,2-DCA	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
EDB	ND	0.0050	mg/Kg	1.00	09/01/2005 11:05	
Surrogate(s)						
1,2-Dichloroethane-d4	87.4	76-124	%	1.00	09/01/2005 11:05	
Toluene-d8	96.1	75-116	%	1.00	09/01/2005 11:05	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-6.0	Lab ID:	2005-08-0851-2
Sampled:	08/29/2005 15:50	Extracted:	9/2/2005 11:35
Matrix:	Soil	QC Batch#:	2005/09/02-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	09/02/2005 11:35	
Benzene	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
Toluene	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
Total xylenes	0.021	0.0050	mg/Kg	1.00	09/02/2005 11:35	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	09/02/2005 11:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	09/02/2005 11:35	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
1,2-DCA	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
EDB	ND	0.0050	mg/Kg	1.00	09/02/2005 11:35	
Surrogate(s)						
1,2-Dichloroethane-d4	86.4	76-124	%	1.00	09/02/2005 11:35	
Toluene-d8	97.5	75-116	%	1.00	09/02/2005 11:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011

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Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-W1	Lab ID:	2005-08-0851-8
Sampled:	08/29/2005 16:30	Extracted:	9/1/2005 12:17
Matrix:	Water	QC Batch#:	2005/09/01-1A.65
Analysis Flag: L2, pH: 7 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	180000	10000	ug/L	200.00	09/01/2005 12:17	
Benzene	22000	100	ug/L	200.00	09/01/2005 12:17	
Toluene	9700	100	ug/L	200.00	09/01/2005 12:17	
Ethylbenzene	5200	100	ug/L	200.00	09/01/2005 12:17	
Total xylenes	25000	200	ug/L	200.00	09/01/2005 12:17	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	200.00	09/01/2005 12:17	
Methyl tert-butyl ether (MTBE)	890	100	ug/L	200.00	09/01/2005 12:17	
Di-isopropyl Ether (DIPE)	1600	400	ug/L	200.00	09/01/2005 12:17	J1
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	09/01/2005 12:17	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	09/01/2005 12:17	
1,2-DCA	ND	100	ug/L	200.00	09/01/2005 12:17	
EDB	ND	100	ug/L	200.00	09/01/2005 12:17	
Surrogate(s)						
1,2-Dichloroethane-d4	113.4	73-130	%	200.00	09/01/2005 12:17	
Toluene-d8	100.4	81-114	%	200.00	09/01/2005 12:17	

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09/07/2005 12:09

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/09/01-1A.65
MB: 2005/09/01-1A.65-037			Date Extracted: 09/01/2005 09:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/01/2005 09:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/01/2005 09:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/01/2005 09:37	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	09/01/2005 09:37	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	09/01/2005 09:37	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	09/01/2005 09:37	
1,2-DCA	ND	0.5	ug/L	09/01/2005 09:37	
EDB	ND	0.5	ug/L	09/01/2005 09:37	
Benzene	ND	0.5	ug/L	09/01/2005 09:37	
Toluene	ND	0.5	ug/L	09/01/2005 09:37	
Ethylbenzene	ND	0.5	ug/L	09/01/2005 09:37	
Total xylenes	ND	1.0	ug/L	09/01/2005 09:37	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	73-130	%	09/01/2005 09:37	
Toluene-d8	95.8	81-114	%	09/01/2005 09:37	

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
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Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2005/09/01-1B 62	
MB: 2005/09/01-1B 62-005				Date Extracted: 09/01/2005 10:05	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline (Shell)	ND	1.0	mg/Kg	09/01/2005 10:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	09/01/2005 10:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	09/01/2005 10:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	09/01/2005 10:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	09/01/2005 10:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	09/01/2005 10:05	
1,2-DCA	ND	0.0050	mg/Kg	09/01/2005 10:05	
EDB	ND	0.0050	mg/Kg	09/01/2005 10:05	
Benzene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Toluene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Ethyl benzene	ND	0.0050	mg/Kg	09/01/2005 10:05	
Total xylenes	ND	0.0050	mg/Kg	09/01/2005 10:05	
Surrogates(s)					
1,2-Dichloroethane-d4	89.4	76-124	%	09/01/2005 10:05	
Toluene-d8	94.8	75-116	%	09/01/2005 10:05	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 247-0897-011
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Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/09/02-1B.62
MB: 2005/09/02-1B.62-047			Date Extracted: 09/02/2005 08:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	09/02/2005 08:48	
Benzene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Toluene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Ethyl benzene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Total xylenes	ND	0.0050	mg/Kg	09/02/2005 08:48	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	09/02/2005 08:48	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	09/02/2005 08:48	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	09/02/2005 08:48	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	09/02/2005 08:48	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	09/02/2005 08:48	
1,2-DCA	ND	0.0050	mg/Kg	09/02/2005 08:48	
EDB	ND	0.0050	mg/Kg	09/02/2005 08:48	
Surrogates(s)					
1,2-Dichloroethane-d4	84.2	76-124	%	09/02/2005 08:48	
Toluene-d8	98.0	75-116	%	09/02/2005 08:48	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch # 2005/09/01-1A.65
LCS: 2005/09/01-1A.65-011	Extracted: 09/01/2005		Analyzed: 09/01/2005 09:11
LCSD:			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.0		25	80.0			65-165	20		
Benzene	24.5		25	98.0			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	428		500	85.6			73-130			
Toluene-d8	505		500	101.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Soil	QC Batch # 2005/09/01-1B-62	
LCS 2005/09/01-1B-62-039	Extracted: 09/01/2005	Analyzed: 09/01/2005 09:39	
LCSD			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0439		0.05	87.8			65-165	20		
Benzene	0.0488		0.05	97.6			69-129	20		
Toluene	0.0479		0.05	95.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	387		500	77.4			76-124			
Toluene-d8	495		500	99.0			75-116			

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09/07/2005 12:09

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Soil		QC Batch # 2005/09/02 1B 62
LCS 2005/09/02 1B 62-022	Extracted: 09/02/2005		Analyzed: 09/02/2005 08:22
LCSD			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0405		0.05	81.0			65-165	20		
Benzene	0.0471		0.05	94.2			69-129	20		
Toluene	0.0444		0.05	88.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	381		500	76.2			53-129			
Toluene-d8	486		500	97.2			47-136			

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09/07/2005 12:09

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water		QC Batch # 2005/09/01-1A-65
MS/MSD			Lab ID: 2005-08-0633-001
MS: 2005/09/01-1A-65-033	Extracted: 09/01/2005	Analyzed:	09/01/2005 10:33
		Dilution:	1:00
MSD: 2005/09/01-1A-65-059	Extracted: 09/01/2005	Analyzed:	09/01/2005 10:59
		Dilution:	1:00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	30.9	31.6	5.87	25	100.1	102.9	2.8	65-165	20		
Benzene	26.6	29.0	2.24	25	97.4	107.0	9.4	69-129	20		
Toluene	27.0	27.9	ND	25	108.0	111.6	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	467	505		500	93.4	101.0		73-130			
Toluene-d8	504	532		500	100.8	106.4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/09/01-1B/62
TB-3-3-0 >> MS		Lab ID	2005-08-0851-001
MS: 2005/09/01-1B.62-031	Extracted: 09/01/2005	Analyzed:	09/01/2005 11:31
		Dilution:	1.00
MSD: 2005/09/01-1B.62-057	Extracted: 09/01/2005	Analyzed:	09/01/2005 11:57
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0548	0.0448	ND	0.048828	112.2	91.4	20.4	65-165	20		R4
Benzene	0.0503	0.0475	ND	0.048828	103.0	96.9	6.1	69-129	20		
Toluene	0.0470	0.0457	ND	0.048828	96.3	93.2	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	534	409		500	106.8	81.8		76-124			
Toluene-d8	517	487		500	103.4	97.4		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS/MSD)		Soils	QC Batch # 2005/09/02-1B 62
MS/MSD			Lab ID: 2005-08-0706 - 005
MS: 2005/09/02-1B 62-046		Extracted: 09/02/2005	Analyzed: 09/02/2005 13:46
			Dilution: 1.00
MSD: 2005/09/02-1B 62-032		Extracted: 09/02/2005	Analyzed: 09/02/2005 14:12
			Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0423	0.0429	ND	0.048638	87.0	87.9	1.0	65-165	26		
Benzene	0.0388	0.0353	ND	0.048638	79.8	72.3	9.9	69-129	26		
Toluene	0.0354	0.0342	ND	0.048638	72.8	70.0	3.9	70-130	26		
Surrogate(s)											
1,2-Dichloroethane-d4	423	412		500	84.6	82.4		53-129			
Toluene-d8	422	388		500	84.4	77.6		47-136			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

J1

J = EPA Flag - Estimated Value;
DX = Value < lowest standard, but > than MDL.

R4

RPD exceeded method control limit; % recoveries within limits.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
TB-3-9.0	08/29/2005 15:59	Soil	3
TB-3-21.0	08/29/2005 16:40	Soil	7

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09/07/2005 12:11

Page 1 of 6

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-9.0	Lab ID:	2005-08-0851-3
Sampled:	08/29/2005 15:59	Extracted:	9/2/2005 12:01
Matrix:	Soil	QC Batch#:	2005/09/02-1B-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	09/02/2005 12:01	
Benzene	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
Toluene	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
Total xylenes	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	09/02/2005 12:01	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	09/02/2005 12:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
1,2-DCA	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
EDB	ND	0.0050	mg/Kg	1.00	09/02/2005 12:01	
Surrogate(s)						
1,2-Dichloroethane-d4	86.0	76-124	%	1.00	09/02/2005 12:01	
Toluene-d8	94.4	75-116	%	1.00	09/02/2005 12:01	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	TB-3-21.0	Lab ID:	2005-08-0851-7
Sampled:	08/29/2005 16:40	Extracted:	9/2/2005 15:57
Matrix:	Soil	QC Batch#:	2005/09/02-1B 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	09/02/2005 15:57	
Benzene	0.0070	0.0050	mg/Kg	1.00	09/02/2005 15:57	
Toluene	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
Total xylenes	0.0090	0.0050	mg/Kg	1.00	09/02/2005 15:57	
tert-Butyl alcohol (TBA)	0.021	0.010	mg/Kg	1.00	09/02/2005 15:57	
Methyl tert-butyl ether (MTBE)	0.0062	0.0050	mg/Kg	1.00	09/02/2005 15:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	09/02/2005 15:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
1,2-DCA	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
EDB	ND	0.0050	mg/Kg	1.00	09/02/2005 15:57	
Surrogate(s)						
1,2-Dichloroethane-d4	84.3	76-124	%	1.00	09/02/2005 15:57	
Toluene-d8	98.3	75-116	%	1.00	09/02/2005 15:57	

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch #2005/09/02-1B.62
MB: 2005/09/02-1B.62-047			Date Extracted: 09/02/2005 08:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	09/02/2005 08:48	
Benzene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Toluene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Ethyl benzene	ND	0.0050	mg/Kg	09/02/2005 08:48	
Total xylenes	ND	0.0050	mg/Kg	09/02/2005 08:48	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	09/02/2005 08:48	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	09/02/2005 08:48	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	09/02/2005 08:48	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	09/02/2005 08:48	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	09/02/2005 08:48	
1,2-DCA	ND	0.0050	mg/Kg	09/02/2005 08:48	
EDB	ND	0.0050	mg/Kg	09/02/2005 08:48	
Surrogates(s)					
1,2-Dichloroethane-d4	84.2	76-124	%	09/02/2005 08:48	
Toluene-d8	98.0	75-116	%	09/02/2005 08:48	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch #: 2005/09/02-1B.62				
LCS		2005/09/02-1B.62-022			Extracted: 09/02/2005		Analyzed: 09/02/2005 08:22		
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0405		0.05	81.0			65-165	20		
Benzene	0.0471		0.05	94.2			69-129	20		
Toluene	0.0444		0.05	88.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	381		500	76.2			53-129			
Toluene-d8	486		500	97.2			47-136			

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS/MSD)		Soil	QC Batch # 2005/09/02-1B.62
MS/MSD			Lab ID: 2005-08-0706 - 005
MS:	2005/09/02-1B.62-046	Extracted: 09/02/2005	Analyzed: 09/02/2005 13:46
			Dilution: 1.00
MSD:	2005/09/02-1B.62-012	Extracted: 09/02/2005	Analyzed: 09/02/2005 14:12
			Dilution: 1.00

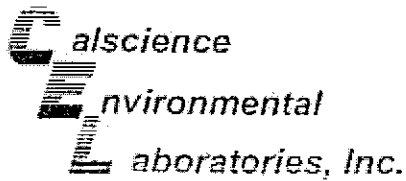
Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0423	0.0429	ND	0.048638	87.0	87.9	1.0	65-165	26		
Benzene	0.0388	0.0353	ND	0.048638	79.8	72.3	9.9	69-129	26		
Toluene	0.0354	0.0342	ND	0.048638	72.8	70.0	3.9	70-130	26		
Surrogate(s)											
1,2-Dichloroethane-d4	423	412		500	84.6	82.4		53-129			
Toluene-d8	422	388		500	84.4	77.6		47-136			

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09/07/2005 12:11



September 01, 2005

Melissa Brewer
Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Subject: **Calscience Work Order No.:** 05-08-1940
Client Reference: 2005-08-0851 / 247-0897-011 / 98995746

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/31/2005 and analyzed in accordance with the attached chain-of-custody.

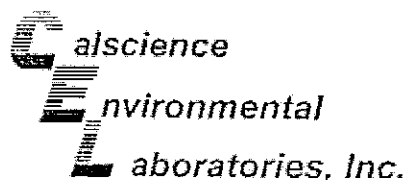
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows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

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

Sincerely,

A handwritten signature in black ink that reads 'Ranjit K. Clarke'.

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager



Analytical Report

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94586-4756

Date Received: 08/31/05
Work Order No: 05-08-1940
Preparation: EPA 3050B
Method: EPA 7421

Project: 2005-08-0851 / 247-0897-011 / 98995746

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-3.0	05-08-1940-1	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	2.22	1.25	5		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-6.0	05-08-1940-2	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	16.3	1.2	5		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-9.0	05-08-1940-3	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	4.20	1.25	5		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-12.0	05-08-1940-4	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	10.2	1.2	5		mg/kg

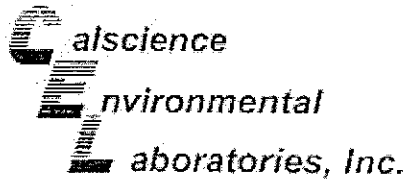
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-15.0	05-08-1940-5	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	5.60	1.25	5		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	GC Batch ID
TB-3-18.0	05-08-1940-6	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	3.85	1.25	5		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report

Severn Trent Laboratories, Inc.
 1220 Quarry Lane
 Pleasanton, CA 94566-4756

Date Received: 08/31/05
 Work Order No: 05-08-1940
 Preparation: EPA 3050B
 Method: EPA 7421

Project: 2005-08-0851 / 247-0897-011 / 98995746

Page 2 of 2

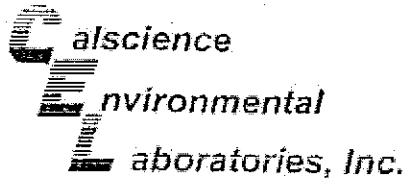
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-3-21.0	05-08-1940-7	08/29/05	Solid	08/31/05	08/31/05	050831L01

Parameter	Result	RL	DF	Qual	Units
Lead	3.20	1.25	5		mg/kg

Method Blank	099-07-021-169	N/A		Solid	08/31/05	08/31/05	050831L01
--------------	----------------	-----	--	-------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.250	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/31/05
Work Order No: 05-08-1940
Preparation: EPA 3020A Total
Method: EPA 7421

Project: 2005-08-0851 / 247-0897-011 / 98995746

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB-3-W1	05-08-1940-8	08/29/05	Aqueous	08/31/05	08/31/05	050831L02

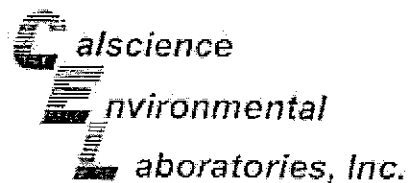
Parameter	Result	RL	DF	Qual	Units
Lead	3.37	0.5	100		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-07-022-364	N/A	Aqueous	08/31/05	08/31/05	050831L02

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.00500	1		mg/L

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92641-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/31/05
Work Order No: 05-08-1940
Preparation: EPA 3050B
Method: EPA 7421


Project: 2005-08-0851 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-08-1868-4	Solid	GFAA	08/31/05	08/31/05	050031501


Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Leat	81	83	50-130	1	0-20	

RPD - Relative Percent Difference . CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501


 alscience


 Environmental


 Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Date Received: 08/31/05
Work Order No: 05-08-1940
Preparation: EPA 3020A Total
Method: EPA 7421

Project 2005-08-0851 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
TB-3-W1	Aqueous	GFAA	08/31/05	08/31/05	050831P02


Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Quality
Lead	101	100	50-130	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit

 7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501


 alscience


 Environmental


 Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

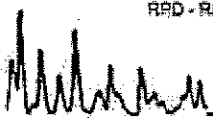
Date Received: N/A
Work Order No: 05-08-1940
Preparation: EPA 3050B
Method: EPA 7421

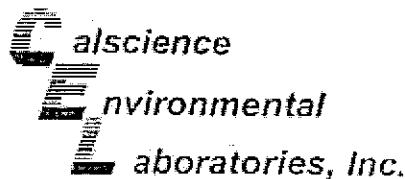
Project: 2005-08-0851 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-021-169	Solid	GFAA	08/31/05	08/31/05	050831L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	100	50-130	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit


 7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
 1220 Quarry Lane
 Pleasanton, CA 94566-4756

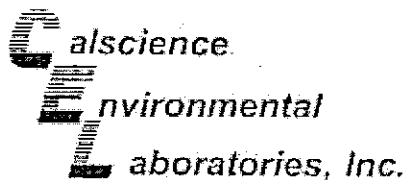
Date Received: N/A
 Work Order No: 05-08-1940
 Preparation: EPA 3020A Total
 Method: EPA 7421

Project: 2005-08-0851 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-022-304	Aqueous	GFAA	08/31/05	09/31/05	050831L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	104	103	50-130	1	0-20	

RPD - Relative Percent Difference CL - Control Limit



Glossary of Terms and Qualifiers

Work Order Number: 05-08-1940

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

1940



STL

Chain of Custody

Date Shipped: 8/30/2005

2005-08-0851 - 1

From:

STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4755

To:

CalScience Analytical Laboratory
7440 Lincoln Way
Garden Grove, CA 92641

Project Manager: Melissa Brewer
Phone: Ext.
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (714) 895-5494 Ext.
Fax: 0-
Contact: Sample Control
Phone: (714) 895-5494 Ext.

CL Submission #: 2005-08-0851
CL PO #:

Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122

Client Sample ID	Sample	Matrix
1 TB-3-3.0 EDF Field ID: TB-3-3.0 Subcontract - Others LEAD by Method 7421 Y RUSH due: 9/2/05 Y	1	8/29/2005 3:40:00PM Soil 5 Day
2 TB-3-8.0 EDF Field ID: TB-3-8.0 Subcontract - Others LEAD by Method 7421 Y RUSH due: 9/2/05 Y	2	8/29/2005 3:50:00PM Soil 5 Day
3 TB-3-9.0 EDF Field ID: TB-3-9.0 Subcontract - Others LEAD by Method 7421 Y RUSH due: 9/2/05 Y	3	8/29/2005 3:59:00PM Soil 5 Day
4 TB-3-12.0 EDF Field ID: TB-3-12.0 Subcontract - Others LEAD by Method 7421 Y RUSH due: 9/2/05 Y	4	8/29/2005 4:08:00PM Soil 5 Day

RUSH!

RELINQUISHED BY: 1.
Signature: [Signature] Time: 1500
Printed Name: Bruce Thomas Date: 8/30/05
Company: STL-SF

RELINQUISHED BY: 2.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.
Signature: [Signature] Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 1.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 2.
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3.
Signature: [Signature] Time: 10:00
Printed Name: Sheri Famo Date: 8/30/05
Company: CCL



STL

1940

Date Shipped: 8/30/2005

Chain of Custody

2005-08-0851 - 1

From: STL San Francisco (CL)
1220 Querry Lane
Pleasanton, CA 94566-4756

To: CalScience Analytical Laboratory
7440 Lincoln Vway
Garden Grove, CA 92641

Project Manager: Melissa Brewer
Phone: (714) 895-5494 Ext:
Phone: (925) 454-1096
Fax: (925) 454-1096
Email: mbrewer@stl-inc.com
Contact: Sample Control
Phone: (714) 895-5494 Ext:

CL Submission #: 2005-08-0851
CL PO #:
Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122

Original Sample ID	EDF Field ID	Quantity	Time	Material	Notes
TB-3-15.0	TB-3-15.0	5	8/29/2005 4:10:00PM	Soil	
Subcontract - Others /* LEAD by Method 7421 */ /* RUSH due: 9/2/05 */					
TB-3-18.0	TB-3-18.0	6	8/29/2005 4:21:00PM	Soil	
Subcontract - Others /* LEAD by Method 7421 */ /* RUSH due: 9/2/05 */					
TB-3-21.0	TB-3-21.0	7	8/29/2005 4:40:00PM	Soil	
Subcontract - Others /* LEAD by Method 7421 */ /* RUSH due: 9/2/05 */					
TB-3-W1	TB-3-W1	8	8/29/2005 4:30:00PM	Water	
Subcontract - Others /* LEAD by Method 7421 */ /* RUSH due: 9/2/05 */					

RELINQUISHED BY: 1.

Signature: *[Signature]* Time: 1500
Printed Name: Brian Thomas Date: 8/30/05
Company: STL-SF

RELINQUISHED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.

Signature: *[Signature]* Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 1.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3.

Signature: *[Signature]* Time: 10:00
Printed Name: Sheri Loma Date: 8/31/05
Company: CCL

1940



Chain of Custody

Date Shipped: 8/30/2005

2005-08-0851 - 1

From
STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To:
SciScience Analytical Laboratory
7440 Lincoln Way
Garden Grove, CA 92641

Project Manager: Melissa Brewer
Phone: Ext:
Fax: (925) 454-1096
Email: mbrewer@stl-inc.com

Phone: (714) 895-5494 Ext
Fax: () -
Contact: Sample Control
Phone: (714) 895-5494 Ext

CL Submission #: 2005-08-0851
CL PO #:

Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122



PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY		1
<i>[Signature]</i>	1500	Time
Bryan Thomas	8/30/05	Date
STL-SF		Company

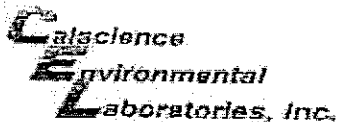
RELINQUISHED BY:		2
Signature		Time
Printed Name		Date
Company		

RELINQUISHED BY:		3
<i>[Signature]</i>		Time
Printed Name		Date
Company		

RECEIVED BY:		1
Signature		Time
Printed Name		Date
Company		

RECEIVED BY:		2
Signature		Time
Printed Name		Date
Company		

RECEIVED BY:		3
<i>[Signature]</i>	12:00	Time
Printed Name	Shelby Long	Date 8/30/05
Company	CEL	



WORK ORDER #:

05 - 08 - 1940

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STL

DATE: 8/31/05

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
°C Temperature blank.

LABORATORY (Other than CalScience Courier):

- °C Temperature blank.
3.4 °C IR thermometer
Ambient temperature.

Initial: [Signature]

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not Intact): Not Applicable (N/A):

Initial: [Signature]

SAMPLE CONDITION:

Table with 3 columns: Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers, Proper preservation, VOA vial(s), Tedlar bag(s).

Initial: [Signature]

COMMENTS:

Blank lines for handwritten comments.

97027

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 454-1096 fax

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

2005-08-0851

Doris Brown

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 6

SAP or CRMT NUMBER (ITS/CRMT)

DATE: 8/20/2005

PAGE: 1 of 1

Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A, Emeryville, CA 94608
 David Gibbs
 Telephone: 510-420-3953 Fax: 510-420-9170 Email: dgibbs@cambria-env.com

4411 Foothill Blvd, Oakland, CA
 (510) 420-3342 shell_om.edf@cambria-env.com 247-0897-011

Baroné

REQUESTED ANALYSIS:

10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RMCLA REPORT FORMAT LIST AGENCY:

GC/MS MTR CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

cc lab report to: rbarone@cambria-env.com

RUSH!

LAB. TAG ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH: Permeable	TPH: Extractable (8015m)	BTEX	MTBG (8.0 pps RL)	TBA	S Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by eq200B	Semi-Volatiles by eq270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SLS <input type="checkbox"/> TSP	LUMPS <input type="checkbox"/> Total <input type="checkbox"/> SLS <input type="checkbox"/> TSP	CARB <input type="checkbox"/> Total <input type="checkbox"/> SLS <input type="checkbox"/> TSP	Test for Disposal	Lead by Method 7421	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	DATE	TIME																					
	TB-3-3.0	8/21	1530	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-6.0	8/21	1550	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-9.0	8/21	1551	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-12.0	8/21	1608	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-15.0	8/21	1610	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-18.0	8/21	1621	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-21.0	8/21	1640	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	TB-3-W1	8/21	1630	SO	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NO PRESERVATIVE

Requested by: [Signature] Received by: [Signature] Date: 8-21-05 Time: 1808

Requested by: [Signature] Received by: [Signature] Date: 8/20/05 Time: 2010

Requested by: [Signature] Received by: [Signature] Date: 8/30/05 Time: 1710



Report Number : 46052

Date : 09/21/2005

David Gibbs
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA

Subject : 6 Soil Samples
Project Name : 4411 Foothill Boulevard, Oakland, CA
Project Number : 247-0697
P.O. Number : 98995746

Dear Mr. Gibbs,

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

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

Sincerely,




Jbel Kiff

Subject : 6 Soil Samples
Project Name : 4411 Foothill Boulevard, Oakland, CA
Project Number : 247-0697
P.O. Number : 98995746

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples TP-1-20.0, TP-2-20.0, TP-3-20.0, TP-5-20.0, TP-6-20.0, and TP-4-20.0 for the analyte Methyl-t-butyl ether were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Approved By: 

Joel Kiff

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697

Sample : TP-1-20.0

Matrix : Soil


Lab Number : 46052-01

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Diisopropyl ether (DIPE)	0.023	0.0050	mg/Kg	EPA 8260B	09/20/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Tert-Butanol	0.0085	0.0050	mg/Kg	EPA 8260B	09/20/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/20/2005
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	09/20/2005
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	09/20/2005

Approved By:

Joel Kiff



Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697

Sample : TP-2-20.0

Matrix : Soil

Lab Number : 46052-02

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.044	0.0050	mg/Kg	EPA 8260B	09/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Diisopropyl ether (DIPE)	0.0053	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-Butanol	0.0088	0.0050	mg/Kg	EPA 8260B	09/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/21/2005
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	09/21/2005
4-Bromofluorobenzene (Surr)	95.6		% Recovery	EPA 8260B	09/21/2005

Approved By:

Joel Kiff

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697

Sample : TP-3-20.0

Matrix : Soil


Lab Number : 46052-03

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Diisopropyl ether (DIPE)	0.018	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-Butanol	0.0071	0.0050	mg/Kg	EPA 8260B	09/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/21/2005
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	09/21/2005
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	09/21/2005

Approved By:

Joel Kiff



Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697


Sample : TP-5-20.0

Matrix : Soil

Lab Number : 46052-04

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Diisopropyl ether (DIPE)	0.013	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-Butanol	0.013	0.0050	mg/Kg	EPA 8260B	09/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/21/2005
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	09/21/2005
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	09/21/2005

Approved By:  Joel Kiff

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697

Sample : TP-6-20.0

Matrix : Soil

Lab Number : 46052-05

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.0080	0.0050	mg/Kg	EPA 8260B	09/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethylbenzene	0.0083	0.0050	mg/Kg	EPA 8260B	09/21/2005
Total Xylenes	0.040	0.0050	mg/Kg	EPA 8260B	09/21/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Diisopropyl ether (DIPE)	0.012	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-Butanol	0.017	0.0050	mg/Kg	EPA 8260B	09/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/21/2005
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	09/21/2005
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	09/21/2005

Approved By:

Joel Kiff

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0697

Sample : TP-4-20.0

Matrix : Soil

Lab Number : 46052-06

Sample Date :09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Diisopropyl ether (DIPE)	0.0066	0.0050	mg/Kg	EPA 8260B	09/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/21/2005
Tert-Butanol	0.029	0.0050	mg/Kg	EPA 8260B	09/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/21/2005
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	09/21/2005
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	09/21/2005

Approved By:

Joel Kiff

QC Report : Method Blank DataProject Name : **4411 Foothill Boulevard, Oakland, CA**Project Number : **247-0697**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/20/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/20/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	09/20/2005
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	09/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  _____
Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 4411 Foothill Boulevard,

Project Number : 247-0697

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45856-26	<0.0050	0.0381	0.0382	0.0276	0.0277	mg/Kg	EPA 8260B	9/21/05	72.6	72.4	0.307	70-130	25
Toluene	45856-26	<0.0050	0.0381	0.0382	0.0274	0.0268	mg/Kg	EPA 8260B	9/21/05	71.9	70.0	2.63	70-130	25
Tert-Butanol	45856-26	<0.0050	0.190	0.191	0.148	0.145	mg/Kg	EPA 8260B	9/21/05	77.8	76.0	2.24	70-130	25
Methyl-t-Butyl Ether	45856-26	<0.0050	0.0381	0.0382	0.0251	0.0243	mg/Kg	EPA 8260B	9/21/05	65.8	63.5	3.58	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : 4411 Foothill Boulevard,

Project Number : 247-0697

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0388	mg/Kg	EPA 8260B	9/20/05	81.8	70-130
Toluene	0.0388	mg/Kg	EPA 8260B	9/20/05	82.4	70-130
Tert-Butanol	0.194	mg/Kg	EPA 8260B	9/20/05	85.6	70-130
Methyl-t-Butyl Ether	0.0388	mg/Kg	EPA 8260B	9/20/05	73.6	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff



720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Project Manager to be Invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

Denis Brown

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 6

9/20/2005

S&E CRMT NUMBER (TS/CRMT)

PAGE: 1 of

SAMPLING COMPANY: Cambria Environmental Tech. Inc.
 LOG CODE:
 ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
 PROJECT CONTACT (Hardcopy or PDF Report to): David Gibbs
 TELEPHONE: 510.420.3365 FAX: 510.420.9170 E-MAIL: dgibbs@cambria-env.com
 SITE ADDRESS (Street and City): 4411 Foothill Boulevard, Oakland, CA
 EDI DELIVERABLE TO (Responsible Party or Designee):
 PHONE NO.:
 E-MAIL: ShellOaklandEDI@cambria-env.com
 CONSULTANT PROJECT NO.: 247-0897
 SAMPLER NAME(S) (Print): Ron Barone
 LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED
 cc Lab report to: rbarone@cambria-env.com

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (9) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note

FIELD NOTES:
 Container/Preservative
 or PID Readings
 or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (9) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT °C
		DATE	TIME																					
	TP-1-20.0	9/20	1145	SO	1	X	X			X														-01
	TP-2-20.0	9/20	1255	SO	1	X	X			X														-02
	TP-3-20.0	9/20	1320	SO	1	X	X			X														-03
	TP-5-20.0	9/20	1335	SO	1	X	X			X														-04
	TP-6-20.0	9/20	1349	SO	1	X	X			X														-05
	TP-4-20.0	9/20	1410	SO	1	X	X			X														-06

Sample Receipt
 Temp °C 0.7
 Initial DA
 Time 1825
 Thermo ID# 18-1
 Date 092005
 Coolant present: Y/N

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date: 9-20-2005 Time: 1549
 Relinquished by: (Signature) _____ Received by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Received by: (Signature) *[Signature]* Date: 092005 Time: 1549

Cambria Environmental Emeryville

September 12, 2005

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0897-011

Project: 98995746

Site: 4411 Foothill Blvd., Oakland, CA

Attached is our report for your samples received on 08/30/2005 10:10

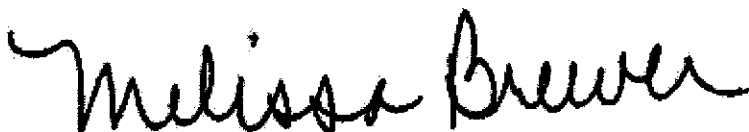
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/14/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Total Lead

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-1	08/29/2005 13:30	Soil	1

Total Lead

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SP-1	Lab ID:	2005-08-0864 - 1
Sampled:	08/29/2005 13:30	Extracted:	9/7/2005 09:36
Matrix:	Soil	QC Batch#:	2005/09/07-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	14	1.0	mg/Kg	1.00	09/07/2005 13:56	

Total Lead

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report					
Prep(s): 3050B				Test(s): 6010B	
Method Blank		Soil		QC Batch # 2005/09/07-04-15	
MB: 2005/09/07-04-15-086				Date Extracted: 09/07/2005 09:36	
Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	09/07/2005 13:46	

Total Lead

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
Laboratory Control Spike				Soil		QC Batch # 2005/09/07-04.15				
LCS	2005/09/07-04.15-087			Extracted: 09/07/2005		Analyzed: 09/07/2005.13:49				
LCSD	2005/09/07-04.15-088			Extracted: 09/07/2005		Analyzed: 09/07/2005.13:53				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	108	103	100.0	108.0	103.0	4.7	80-120	20		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/07/2005 16:11

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-1	08/29/2005 13:30	Soil	1

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SP-1	Lab ID:	2005-08-0864 - 1
Sampled:	08/29/2005 13:30	Extracted:	9/10/2005 02:50
Matrix:	Soil	QC Batch#:	2005/09/09-3A.62
Analysis Flag: L2 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	460	50	mg/Kg	1.00	09/10/2005 02:50	
Benzene	0.87	0.50	mg/Kg	1.00	09/10/2005 02:50	
Toluene	ND	0.50	mg/Kg	1.00	09/10/2005 02:50	
Ethyl benzene	9.5	0.50	mg/Kg	1.00	09/10/2005 02:50	
Total xylenes	7.3	0.50	mg/Kg	1.00	09/10/2005 02:50	
Surrogate(s)						
1,2-Dichloroethane-d4	92.8	53-129	%	1.00	09/10/2005 02:50	
Toluene-d8	98.9	47-136	%	1.00	09/10/2005 02:50	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method: Blank	Soil		QC Batch #: 2005/09/09-3A.62
MB: 2005/09/09-3A.62-058			Date Extracted: 09/10/2005 01:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	09/10/2005 01:58	
Benzene	ND	0.50	mg/Kg	09/10/2005 01:58	
Toluene	ND	0.50	mg/Kg	09/10/2005 01:58	
Ethyl benzene	ND	0.50	mg/Kg	09/10/2005 01:58	
Total xylenes	ND	0.50	mg/Kg	09/10/2005 01:58	
Surrogates(s)					
1,2-Dichloroethane-d4	110.4	53-129	%	09/10/2005 01:58	
Toluene-d8	119.2	47-136	%	09/10/2005 01:58	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011
98995746

Received: 08/30/2005 10:10

Site: 4411 Foothill Blvd., Oakland, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Soil	QC Batch # 2005/09/09-3A.62
LCS	2005/09/09-3A.62-005	Extracted: 09/10/2005	Analyzed: 09/10/2005 01:05
LCSD	2005/09/09-3A.62-032	Extracted: 09/10/2005	Analyzed: 09/10/2005 01:32

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	12.5	12.6	10	125.0	126.0	0.8	69-129	20		
Toluene	11.1	10.8	10	111.0	108.0	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	233	244	250	93.2	97.6		53-129			
Toluene-d8	281	274	250	112.4	109.6		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0897-011

98995746

Received: 08/30/2005 10:10

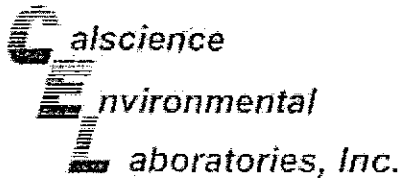
Site: 4411 Foothill Blvd., Oakland, CA

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.



September 13, 2005

Melissa Brewer
Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

Subject: Calscience Work Order No.: 05-09-0474
Client Reference: 2005-08-0864 / 247-0897-011 / 98995746

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/9/2005 and analyzed in accordance with the attached chain-of-custody.

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

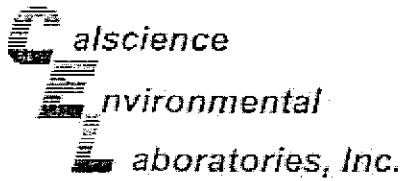
If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Ranjit K. F. Clarke".

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

A handwritten signature in black ink, likely belonging to the undersigned mentioned in the text.



Analytical Report

Severn Trent Laboratories, Inc.
 1220 Quarry Lane
 Pleasanton, CA 94566-4756

Date Received: 09/09/05
 Work Order No: 05-09-0474
 Preparation: DHS LUFT
 Method: DHS LUFT

Project: 2005-08-0864 / 247-0897-011 / 98995746

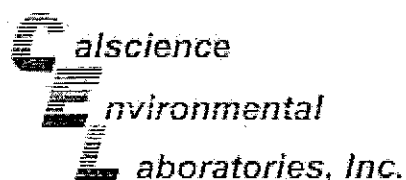
Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP-1	05-09-0474-1	09/29/05	Solid	09/12/05	09/13/05	050912L02

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg
Method Blank		099-10-020-464	N/A	Solid	09/12/05 09/13/05 050912L02

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566-4756

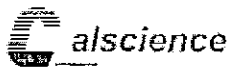
Date Received: 09/09/05
Work Order No: 05-09-0474
Preparation: DHS LUFT
Method: DHS LUFT

Project 2005-08-0864 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-0547-1	Solid	FLAA	09/12/05	09/12/05	050912502

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	51	53	22-140	4	0-15	

RPD - Relative Percent Difference CL - Control Limit



Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.

Severn Trent Laboratories, Inc.
 1220 Quarry Lane
 Pleasanton, CA 94566-4756

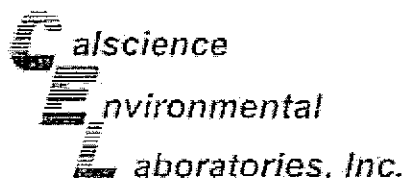
Date Received: N/A
 Work Order No: 05-09-0474
 Preparation: DHS LUFT
 Method: DHS LUFT

Project: 2005-08-0864 / 247-0897-011 / 98995746

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-464	Solid	FLAA	09/13/05	NONE	050912L02

Parameter	Conc Added	Conc Recovered	LCS % Rec	% Rec CL	Qualifiers
Organic Lead	25.0	26.3	105	72-126	

RPD - Relative Percent Difference . CC - Control Limit



Glossary of Terms and Qualifiers

Work Order Number: 05-09-0474

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

0474

Date Shipped: 9/8/2005

2005-08-0864 - 1

SEVERN
FRONT **STL**

Chain of Custody

From:
STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To:
CalScience Analytical Laboratory
7440 Lincoln Way
Garden Grove, CA 92841

Project Manager: Melissa Brewer
Phone Ext.
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (714) 895-5494 Ext.
Fax: ()
Contact: Sample Control
Phone: (714) 895-5494 Ext.

CL Submission #: 2005-08-0864
CL PO #:

Project #: 247-0897-011
Project Name: 98995746
EDF Global ID: T0604100122

Client Sample ID	EDF Field ID	Sample ID	Collection Date/Time	Sample Type	Analysis Method	Turnaround Time
	SP-1	1	8/29/2005 1:30:00PM	Soil		
Subcontract - Organic Lead (* Results due: 9/16/05 *)				LUFT		6 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS.

RELINQUISHED BY: 1.

Signature: *[Signature]* Time: 1530
Printed Name: *Ben Thomas* Date: 9/8/05
Company: STL-SF

RELINQUISHED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 1.

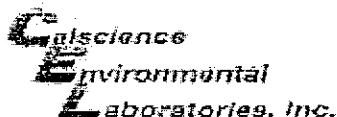
Signature: *[Signature]* Time: 1030
Printed Name: *J. Patel* Date: 9/14/05
Company: *CEL*

RECEIVED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____



WORK ORDER #:

05 - 09 - 0474

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STL

DATE: 9/9/05

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- 5.9 °C IR thermometer.
- Ambient temperature.

Initial: ST

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Applicable (N/A):

Initial: ST

SAMPLE CONDITION:

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

Initial: ST

COMMENTS:

Ranjit Clarke

From: Brewer, Melissa [MBrewer@stl-inc.com]
Sent: Monday, September 12, 2005 4:15 PM
To: Ranjit Clarke
Subject: FW: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

Can we get this by tomorrow instead? They're getting anxious for the results.

-----Original Message-----

From: Dalie, Stewart [mailto:SDalie@cambria-env.com]
Sent: Monday, September 12, 2005 12:03 PM
To: Brewer, Melissa
Cc: Barone, Ron
Subject: FW: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

Melissa,

Sorry to throw this back at you so late, but I do need this back, ASAP! I'm trying to conduct over excavation work, and need to set up a temporary stockpile agreement with the landfill, however I need this investigations results prior to agreement. Any help you can get me in expediting results would be great. Please forward all correspondence on this site to me! Thanks

Stewart A. Dalie IV
Senior Staff Scientist
Field Services Manager
Cambria Environmental Technologies, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
(510) 420-3339 phone
(510) 420-9170 fax
(510) 750-0206 cell
sdalie@cambria-env.com e-mail

-----Original Message-----

From: Gibbs, David
Sent: Monday, September 12, 2005 12:41 PM
To: Dalie, Stewart
Subject: FW: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

-----Original Message-----

From: Brewer, Melissa [mailto:MBrewer@stl-inc.com]
Sent: Wednesday, September 07, 2005 4:29 PM
To: Gibbs, David
Cc: Barone, Ron
Subject: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

From: Melissa Brewer <mbrewer@stl-inc.com>

9/13/2005

Brewer, Melissa

From: Dalie, Stewart [SDalie@cambria-env.com]
Sent: Monday, September 12, 2005 2:14 PM
To: Brewer, Melissa
Subject: RE: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

rush TAT is fine, tomorrow even better, we definitely need them...

Stu

-----Original Message-----

From: Brewer, Melissa [mailto:MBrewer@sti-inc.com]
Sent: Monday, September 12, 2005 3:07 PM
To: Dalie, Stewart
Subject: RE: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

Everything is done except the Organic Lead from Calsciencce that was sent on the 9th. I believe that it was not put on a rush to Calsciencce because the project wasn't a rush. I can probably get the results tomorrow if you do want to pay for the rush TAT. Please verify when you need these results by and then I'll change the TAT with Calsciencce.

-----Original Message-----

From: Dalie, Stewart [mailto:SDalie@cambria-env.com]
Sent: Monday, September 12, 2005 12:03 PM
To: Brewer, Melissa
Cc: Barone, Ron
Subject: FW: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

Melissa,

Sorry to throw this back at you so late, but I do need this back ASAP! I'm trying to conduct over excavation work and need to set up a temporary stockpile agreement with the landfill, however I need this investigations results prior to agreement. Any help you can get me in expediting results would be great. Please forward all correspondence on this site to me! Thanks.

Stewart A. Dalie-IV
Senior Staff Scientist
Field Services Manager
Cambria Environmental Technologies, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
(510) 420-3339 phone
(510) 420-9170 fax
(510) 750-0206 cell
sdalie@cambria-env.com e-mail

-----Original Message-----

From: Gibbs, David
Sent: Monday, September 12, 2005 12:41 PM
To: Dalie, Stewart
Subject: FW: 4411 Foothill Blvd., Oakland, CA : 2005-08-0864

9/12/2005

1230 Quarry Lane
Pleasanton, CA 94566

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

2005-08-0264
Oasis Brown

INCIDENT NUMBER (S&E ONLY)							
9	8	9	9	5	7	4	6
S&E/CRMT NUMBER (TS/CRMT)							

DATE: 8/29/2005
PAGE: 1 of 1

(925) 484-1919 (925) 484-1096 fax

Cumbria Environmental Technology, Inc. 5900 Hollis Street, Suite A, Emeryville, CA 94609 David Gibbs 510.420.3363 510.420.8170 dgibbs@cambria-env.com		LOG CODE:	SITE ADDRESS (Regional and City): 4411 Foothill Blvd, Oakland, CA	FEDERAL CLSU: T0804100122
PROJECT CONTACT INFORMATION		PHONE NO: (510) 420-3342	CONSULTANT PROJECT NO: 247-0897-011	
CONTACT NAME (S/Title): Barone		LAB USE ONLY		

ANALYSIS TIME (BUSINESS DAYS)

10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

IA - RAD-9 REPORT FORMAT LIST AGENCY:

GCMS SITES CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EGD IS NOT NEEDED

cc: lab report to: barone@cambria-env.com
Composite

REQUESTED ANALYSIS															FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
TPH - Purgeable	TPH - Extractable (BTEX)	BTEX	MTBE (5.0 ppb RL)	TPA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Inj <input type="checkbox"/> 313C <input type="checkbox"/> TSP	LUFS <input type="checkbox"/> 1cm <input type="checkbox"/> 316 <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> 1cm <input type="checkbox"/> 316 <input type="checkbox"/> TSP	Test for Disposal		Lead by Method 7421
X	X				X	X									X	
															X	
															X	
															X	

COP CPL CPL1	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	ANALYSIS															TEMPERATURE ON RECEIPT (C)			
		DATE	TIME			TPH - Purgeable	TPH - Extractable (BTEX)	BTEX	MTBE (5.0 ppb RL)	TPA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Inj <input type="checkbox"/> 313C <input type="checkbox"/> TSP	LUFS <input type="checkbox"/> 1cm <input type="checkbox"/> 316 <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> 1cm <input type="checkbox"/> 316 <input type="checkbox"/> TSP	Test for Disposal		Lead by Method 7421		
	SP-1-A	8/29	0330	So	1	X	X				X	X								X				
	SP-1-B	↓	↓	↓	↓															X				
	SP-1-C	↓	↓	↓	↓															X				
	SP-1-D	↓	↓	↓	↓															X				

Prepared by: <i>RJB</i>	Received by: <i>Sam L...</i>	Date: 8-29-05	Time: 1810
Checked by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 8/30/05	Time: 4010
Tested by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 8/30/05	Time: 1210

Labels should be filled with black ink. Green for Title, Yellow and Pink for Dates.

David Gibbs
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

Subject : 1 Soil Sample
Project Name : 4411 Foothill Boulevard, Oakland, CA
Project Number : 247-0897
P.O. Number : 98995746

Dear Mr. Gibbs,

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

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

Sincerely,


Joel Kiff

Subject : 1 Soil Sample
Project Name : 4411 Foothill Boulevard, Oakland, CA
Project Number : 247-0897
P.O. Number : 98995746

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample SP-2 for the analytes Benzene, Toluene, Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: _____


Joe Kiff

Project Name : **4411 Foothill Boulevard, Oakland, CA**Project Number : **247-0897**Sample : **SP-2**

Matrix : Soil

Lab Number : 46051-01

Sample Date :9/20/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.40	0.15	mg/Kg	EPA 8260B	9/21/2005
Toluene	1.3	0.15	mg/Kg	EPA 8260B	9/21/2005
Ethylbenzene	19	0.15	mg/Kg	EPA 8260B	9/21/2005
Total Xylenes	97	0.25	mg/Kg	EPA 8260B	9/21/2005
TPH as Gasoline	1400	25	mg/Kg	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	87.8		% Recovery	EPA 8260B	9/21/2005

Approved By:


Joel Kiff

Report Number : 46051

Date : 9/21/2005

QC Report : Method Blank Data

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0897

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/21/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/21/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/21/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/21/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	97.4		%	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	9/21/2005

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

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

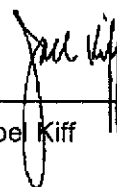
Approved By:  _____
Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 4411 Foothill Boulevard,

Project Number : 247-0897

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	45856-04	0.18	0.0392	0.0391	0.162	0.168	mg/Kg	EPA 8260B	9/21/05	0.00	0.00	0.00	70-130	25
Toluene	45856-04	0.023	0.0392	0.0391	0.0471	0.0508	mg/Kg	EPA 8260B	9/21/05	60.7	70.4	14.9	70-130	25
Methyl-t-Butyl Ether	45856-04	0.10	0.0392	0.0391	0.105	0.112	mg/Kg	EPA 8260B	9/21/05	0.00	16.1	200	70-130	25

Approved By:  Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number : 46051

Date : 9/21/2005

Project Name : **4411 Foothill Boulevard,**

Project Number : **247-0897**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0370	mg/Kg	EPA 8260B	9/21/05	88.8	70-130
Toluene	0.0370	mg/Kg	EPA 8260B	9/21/05	91.3	70-130
Methyl-t-Butyl Ether	0.0370	mg/Kg	EPA 8260B	9/21/05	85.7	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:


Joel Kiff

September 21, 2005

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

Subject: **Calscience Work Order No.: 05-09-1186**
Client Reference: 4411 Foothill Boulevard, Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/21/2005 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,



Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Report Number : 46112

Date : 9/26/2005

David Gibbs
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA

Subject : 1 Soil Sample
Project Name : 4411 Foothill Boulevard, Oakland, CA
Project Number : 247-0897
P.O. Number : 98995746

Dear Mr. Gibbs,

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff". The signature is stylized with a large, looping initial 'J' and a long, sweeping underline that extends to the right.

Joel Kiff

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0897

Sample : SP3

Matrix : Soil

Lab Number : 46112-01

Sample Date : 9/22/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.025	0.025	mg/Kg	EPA 8260B	9/23/2005
Toluene	< 0.025	0.025	mg/Kg	EPA 8260B	9/23/2005
Ethylbenzene	0.22	0.025	mg/Kg	EPA 8260B	9/23/2005
Total Xylenes	1.1	0.025	mg/Kg	EPA 8260B	9/23/2005
TPH as Gasoline	60	2.5	mg/Kg	EPA 8260B	9/23/2005
Toluene - d8 (Surr)	112		% Recovery	EPA 8260B	9/23/2005
4-Bromofluorobenzene (Surr)	83.5		% Recovery	EPA 8260B	9/23/2005

Approved By:


Joel Kiff

QC Report : Method Blank Data

Project Name : 4411 Foothill Boulevard, Oakland, CA

Project Number : 247-0897

Report Number : 46112

Date : 9/26/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/23/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/23/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/23/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/23/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/23/2005
Toluene - d8 (Surr)	97.0		%	EPA 8260B	9/23/2005
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	9/23/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 4411 Foothill Boulevard,

Project Number : 247-0897

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	46096-01	<0.0050	0.0403	0.0402	0.0346	0.0354	mg/Kg	EPA 8260B	9/24/05	85.7	88.1	2.72	70-130	25
Toluene	46096-01	<0.0050	0.0403	0.0402	0.0356	0.0364	mg/Kg	EPA 8260B	9/24/05	88.2	90.7	2.84	70-130	25
Methyl-t-Butyl Ether	46096-01	<0.0050	0.0403	0.0402	0.0332	0.0352	mg/Kg	EPA 8260B	9/24/05	82.3	87.6	6.28	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



QC Report : Laboratory Control Sample (LCS)

Project Name : 4411 Foothill Boulevard,

Project Number : 247-0897

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0399	mg/Kg	EPA 8260B	9/24/05	93.2	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	9/24/05	88.5	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	9/24/05	91.5	70-130

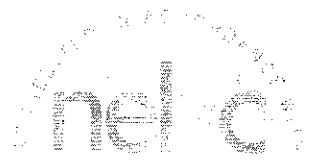
KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff





September 29, 2005

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

Subject: **Calscience Work Order No.: 05-09-1432**
Client Reference: **4411 Foothill Boulevard, Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/24/2005 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", is positioned above the typed name.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

A handwritten signature in black ink is located at the bottom left of the page, below the footer text.

Analytical Report



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

Date Received: 09/24/05
 Work Order No: 05-09-1432
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: 4411 Foothill Boulevard, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP3	05-09-1432-1	09/22/05	Solid	09/26/05	09/26/05	050926L01

Parameter	Result	RL	DF	Qual	Units
Lead	59.1	0.5	1		mg/kg

Method Blank	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
	097-01-002-6,845	N/A	Solid	09/26/05	09/26/05	050926L01

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

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

Analytical Report



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

Date Received: 09/24/05
 Work Order No: 05-09-1432
 Preparation: CCR 66261.126
 Method: EPA 6010B

Project: 4411 Foothill Boulevard, Oakland, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP3	05-09-1432-1	09/22/05	Solid	09/26/05	09/28/05	050928E06

Parameter	Result	RL	DF	Qual	Units
Lead	2.76	0.1	1		mg/L

Method Blank	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-05-006-2,884	N/A	Solid	09/26/05	09/28/05	050928E06

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

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

Analytical Report



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

Date Received: 09/24/05
 Work Order No: 05-09-1432
 Preparation: DHS LUFT
 Method: DHS LUFT

Project: 4411 Foothill Boulevard, Oakland, CA

Page 1 of 1

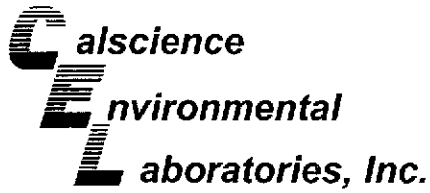
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP3	05-09-1432-1	09/22/05	Solid	09/27/05	09/27/05	050927L01

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-020-471	N/A	Solid	09/27/05	09/27/05	050927L01

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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



Quality Control - Spike/Spike Duplicate



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

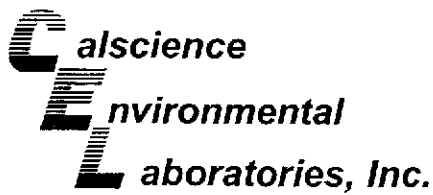
Date Received: 09/24/05
Work Order No: 05-09-1432
Preparation: EPA 3050B
Method: EPA 6010B

Project 4411 Foothill Boulevard, Oakland, CA

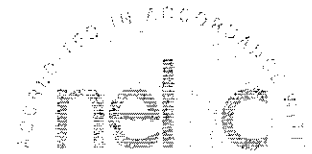
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-1430-3	Solid	ICP 3300	09/26/05	09/26/05	050926S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	85	187	75-125	50	0-20	4,3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

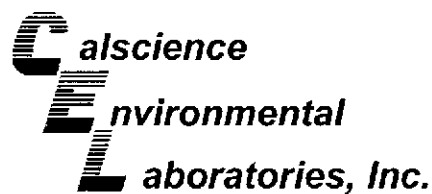
Date Received: 09/24/05
Work Order No: 05-09-1432
Preparation: CCR 66261.126
Method: EPA 6010B

Project 4411 Foothill Boulevard, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-1347-4	Solid	ICP 3300	09/26/05	09/28/05	050928S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	186	181	75-125	2	0-20	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

Date Received: 09/24/05
Work Order No: 05-09-1432
Preparation: DHS LUFT
Method: DHS LUFT

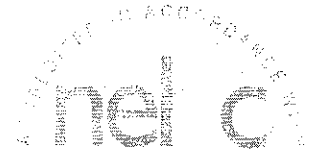
Project 4411 Foothill Boulevard, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SP3	Solid	FLAA	09/27/05	09/27/05	050927S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	78	82	22-148	4	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
 Work Order No: 05-09-1432
 Preparation: EPA 3050B
 Method: EPA 6010B

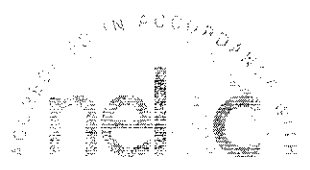
Project: 4411 Foothill Boulevard, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-6,845	Solid	ICP 3300	09/26/05	09/26/05	050926L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	102	80-120	0	0-20	

RPD - Relative Percent Difference, CL - Control Limit

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



Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	05-09-1432
Davis, CA 95616-6593	Preparation:	CCR 66261.126
	Method:	EPA 6010B

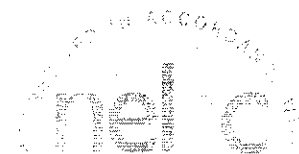
Project: 4411 Foothill Boulevard, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-2.884	Solid	ICP 3300	09/28/05	050928-1-06	050928L06

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	5.00	5.13	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience
Environmental Laboratories, Inc. **Quality Control - Laboratory Control Sample**



Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	05-09-1432
Davis, CA 95616-6593	Preparation:	DHS LUFT
	Method:	DHS LUFT

Project: 4411 Foothill Boulevard, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-471	Solid	FLAA	09/27/05	NONE	050927L01

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	24.8	99	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 05-09-1432

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



2795 Second Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Cal Science Environmental
 7440 Lincoln Way
 Garden Grove, CA 92841
 714-895-5494

1432

Lab No. _____ Page 1 of 1

Project Contact (Hardcopy or PDF to): **Troy Turpen**
 Company/Address: **Kiff Analytical, LLC**
 Phone No.: _____ FAX No.: _____
 Project Number: **247-0897** P.O. No.: **46112**
 Project Name: **4411 Foothill Boulevard, Oakland, CA**
 Project Address: _____

Geotracker COELT EDD REPORT?
 YES NO

Sampling Company Log Code: **CETO**

Global ID: **T0600101065**

EDF Deliverable to (Email Address):
inbox@kiffanalytical.com

E-mail address:
inbox@kiffanalytical.com

Chain-of-Custody Record and Analysis Request

Analysis Request										Date Due:	
Total Lead EPA 6010*										September 26, 2005	For Lab Use Only

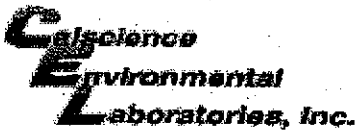
Sample Designation	Sampling		Container					Preservative				Matrix			
	Date	Time	Glass Jar	Poly	Amber	VOA	Tedlar	H ₂ SO ₄	HNO ₃	ICE	NONE	Na ₂ S ₂ O ₃	WATER	SOIL	AIR
SP3	9/22/05	16:20	1							X			X		

Relinquished by: <i>Gayle Orr</i> Kiff Analytical	Date: 09/23/05	Time: 1900	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

Remarks: *THIS IS A SHELL PROJECT. STLC on all TTLC Metals 10 times STLC maximum TTLC Lead > or = to 13 mg/kg required Organic Lead analysis if TTLC Lead is > or = 20 times TCLP regulatory levels, TCLP is required.

Bill to: **Accounts Payable**

92485 © 935



WORK ORDER #: 05 - 09 - 11 4 3 2

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff Analytical

DATE: 9/24/05

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:	LABORATORY (Other than Calscience Courier):
<input type="checkbox"/> Chilled, cooler with temperature blank provided.	<u>3.2</u> °C Temperature blank.
<input type="checkbox"/> Chilled, cooler without temperature blank.	<input type="checkbox"/> °C IR thermometer.
<input type="checkbox"/> Chilled and placed in cooler with wet ice.	<input type="checkbox"/> Ambient temperature.
<input type="checkbox"/> Ambient and placed in cooler with wet ice.	
<input type="checkbox"/> Ambient temperature.	
<input type="checkbox"/> °C Temperature blank.	

Initial: TL

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact): _____ Not Applicable (N/A): _____

Initial: TL

SAMPLE CONDITION:

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

Initial: TL

COMMENTS:

SHELL Chain of Custody Record

10111
9-22-2005
PAGE: 1 of 1

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- ENVIRONMENTAL SERVICES
- ENVIRONMENTAL MONITORING
- ENVIRONMENTAL INVESTIGATION
- ENVIRONMENTAL REMEDIATION
- ENVIRONMENTAL ASSESSMENT
- ENVIRONMENTAL PLANNING
- ENVIRONMENTAL TRAINING
- ENVIRONMENTAL CONSULTING
- ENVIRONMENTAL DESIGN
- ENVIRONMENTAL CONSTRUCTION
- ENVIRONMENTAL OPERATION
- ENVIRONMENTAL MAINTENANCE
- ENVIRONMENTAL REPAIR
- ENVIRONMENTAL RESTORATION
- ENVIRONMENTAL PRESERVATION
- ENVIRONMENTAL PROTECTION
- ENVIRONMENTAL ENFORCEMENT
- ENVIRONMENTAL COMPLIANCE
- ENVIRONMENTAL MONITORING & ASSESSMENT
- ENVIRONMENTAL INVESTIGATION & ASSESSMENT
- ENVIRONMENTAL REMEDIATION & ASSESSMENT
- ENVIRONMENTAL ASSESSMENT & DESIGN
- ENVIRONMENTAL DESIGN & CONSTRUCTION
- ENVIRONMENTAL CONSTRUCTION & OPERATION
- ENVIRONMENTAL OPERATION & MAINTENANCE
- ENVIRONMENTAL MAINTENANCE & REPAIR
- ENVIRONMENTAL REPAIR & RESTORATION
- ENVIRONMENTAL RESTORATION & PRESERVATION
- ENVIRONMENTAL PRESERVATION & PROTECTION
- ENVIRONMENTAL PROTECTION & ENFORCEMENT
- ENVIRONMENTAL ENFORCEMENT & COMPLIANCE
- ENVIRONMENTAL COMPLIANCE & MONITORING
- ENVIRONMENTAL MONITORING & ASSESSMENT

Denis Brown

ACCOUNT NUMBER (SEE SHEET)
9 8 9 9 5 7 4 6
PROJECT NUMBER (SEE SHEET)

SAMPLING COMPANY: Cambria Environmental Tech. Inc.
LOG CODE:
SITE ADDRESS (Street and City): 4411 Foothill Boulevard, Oakland, CA
GLOBAL ID NO.: T0600101065
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
EDF DELIVERABLE TO (Responsible Party or Designer):
PHONE NO.:
E-MAIL: ShellOaklandEDF@cambria-env.com
CONSULTANT PROJECT NO.: 247-0897
PROJECT CONTACT (Hardcopy or PDF Report to):
SAMPLER NAME(S) (Last, First, Middle Initial): Ron Barone
TELEPHONE: 510.420.3365 FAX: 510.420.9170 E-MAIL: dglbbs@cambria-env.com

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - RWQCB REPORT FORMAT UST AGENCY:
 GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED
 cc Lab report to: rbarone@cambria-env.com
*Composite
SP-3-A → D
4 → 1*

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (T0-15)	Vapor VOCs Full List (T0-15)	Vapor TPH (ASTM 3416m)	Vapor Filled Gases (ASTM D1946)	Test for Disposal (48-)	TPH - Diesel, Extractable (9015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT °F	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
	DATE	TIME																							
SP-3-A	9/22	1600	SO	1																					
SP-3-B	↓	↓	↓	↓																				} 01	
SP-3-C	↓	↓	↓	↓																					
SP-3-D	↓	↓	↓	↓																					

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *Same Location* Date: 9-22-2005 Time: 1700
 Relinquished by: (Signature) Received by: (Signature) Date: Date: Time: Time:
 Relinquished by: (Signature) Received by: (Signature) *Chino Area* Date: 9-23-05 Time: 0953

DISTRIBUTION: Write with final report, Green to File, Yellow and Pink to Client.

C&O Graphic (714) 898-9702

This information is business proprietary and confidential and must not be divulged or shared outside the company. The use of this information is strictly for the purpose of doing business with the Centralized Residual Management Team (CRMT). Upon termination of the relationship with the CRMT, this information is not to be forwarded, duplicated, shared or used for any purpose other than for the documentation of past actions.

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01
CANCELS ISSUE:
ISSUED BY: LRR

RESIDUAL STREAM: SOIL WITH UNLEADED GASOLINE
VENDOR: ALLIED-BFI
LOCATION: ALLIED WASTE - MANTECA
9999 SOUTH AUSTIN ROAD
MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

BTEX - EPA 8021B/8260B (IF BENZENE IS > OR = TO 10 MG/KG THEN TCLP BENZENE IS REQUIRED)

CAM METALS = TTLC METALS - **LEAD ONLY**
STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM
TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS
IF ANY TTLC TOTAL METAL IS > OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OR **8015** - GASOLINE

~~MTBE METHOD 8260B (GC/MS)~~

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)
-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE
-ALL REQUIRED TESTS ON COMPOSITE (max 4:1)
-LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS
~~-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM~~

PROCEDURE ORIGINAL DATE: 08/01/01
PROCEDURE REVISED DATE: 08/01/01

ATTACHMENT E
Soil Disposal Confirmation



Hazardous Waste Hauler (Registration # 2843)

P.O. Box 292547 * Sacramento, CA 95829 * FAX 916-381-1573

Disposal Confirmation

Request for Transportation Received: 09/13/05

Consultant Information

Company: Cambria
 Contact: Stu / Ron
 Phone: 510-420-3339
 Fax: 510-420-9170

Site Information

PO # _____
 Street Address: 4411 Foothill Blvd
 City, State, ZIP: Oakland, CA

Customer: Shell Oil Company RESA-0023-LDC
 RIPR #: 47644
 SAP # / Location: 135686
 Incident #: 98995746
 Location / WIC #: 204-5508-3400
 Environmental Engineer: Denis Brown

Material Description: Soil
 Estimated Quantity: 200-205 CY
 Service Requested Date: 9/13/05 ASAP

Disposal Facility: Forward Landfill
 Contact: Virginia
 Phone: 800 204-4242
 Approval #: 5809
 Date of Disposal: 9/20/05 9/21/05 9/22/05 9/23/05 9/24/05
 Actual Tonnage 143.31 252.15 241.19 74.81 8.15

Transporter: Manley & Sons Trucking, Inc.
 Contact: Alicia Lee
 Phone: 916 381-6864
 Fax: 916 381-1573
 Invoice: 200510-4
 Date of Invoice: 10/10/05

ATTACHMENT F

Inspection of Backfill Excavation Compaction Report

FRANK LEE & ASSOCIATES
GEOTECHNICAL CONSULTANTS
10 KOOTENAI COURT, FREMONT, CA 94539
(510) 657-7792

November 1, 2005
Job No: 11223-S2-L1

Mr. Bill Phua
821 Jefferson Street
Oakland, California 94607

SUBJECT: INSPECTION OF BACKFILL EXCAVATION COMPACTION
Proposed One Story New Commercial Buildings
4411 Foothill Boulevard
Oakland, California

Dear Mr. Bill Phua:

This letter is to confirm that we provided inspection and testing during the grading operation of the backfill excavation for the proposed one story new commercial buildings at the subject site. The results of field density testing performed by our firm indicated that a minimum of 90 per cent of relative compaction was achieved on the backfill excavation. The excavation was approximately 20 feet, of which, the bottom 10 feet was backfilled with gravel and covered with the filter fabric. It is adequate.

We appreciate the opportunity to work with you on this project. If you have any questions or if we can be of further service, please do not hesitate to call. Thank you.

Very truly yours,

FRANK LEE & ASSOCIATES

Frank Lee
Frank Lee
Professional Engineer CE34975



11/1/05
AP 9/30/07

Job No: 11223-S2-L1

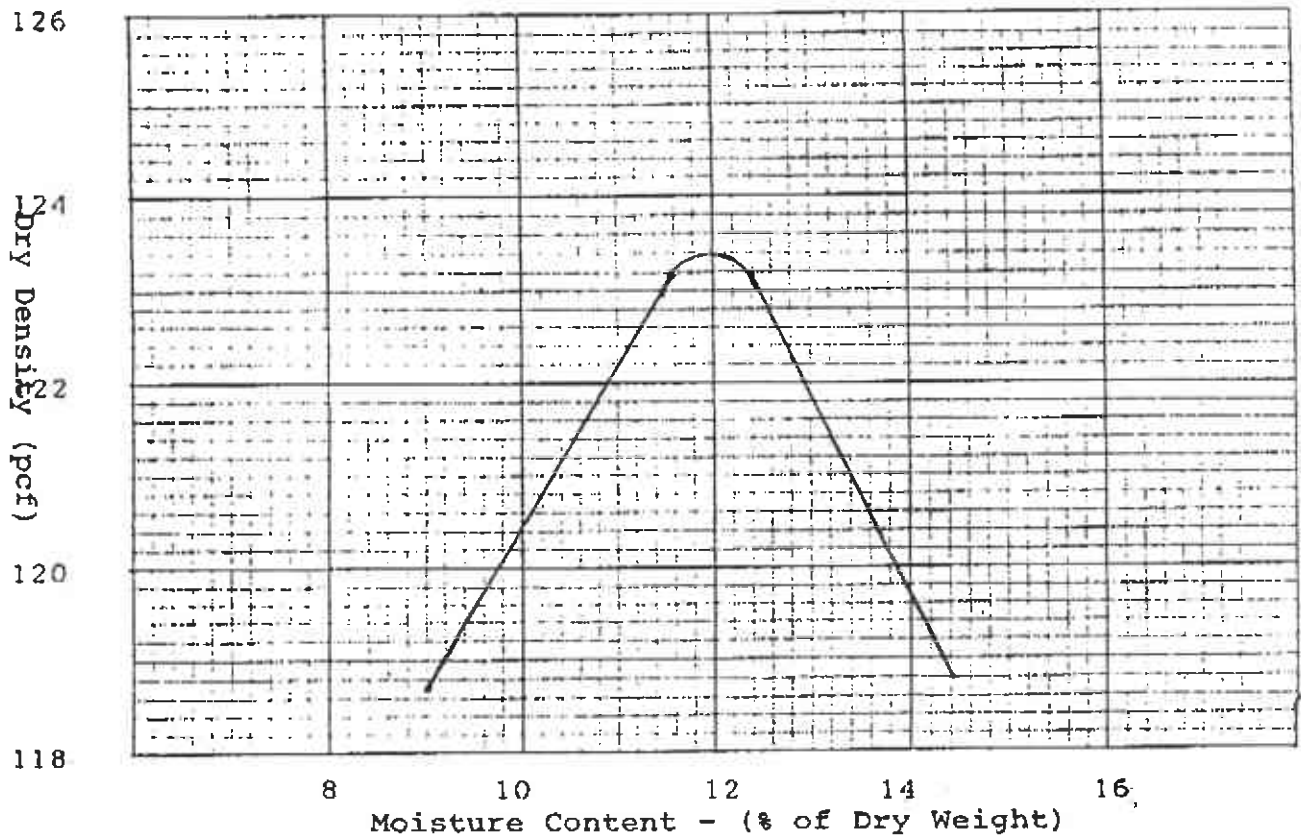
TABLE II

SUMMARY OF COMPACTION TEST RESULTS

Test No.	Date	Location & Depth	Moisture (%)	Dry Density (p.c.f.)	% Relative Compaction	Reference
1	09/23/05	-10'	16.0	104.7	84.8	A
2	09/23/05	-10'	16.5	112.1	90.8	A(RT#1)
3	09/23/05	-8.5'	16.1	111.8	90.6	A
4	09/23/05	-7.0	12.6	118.8	96.3	A
5	09/24/05	-5.5'	16.1	112.2	90.3	A
6	09/24/05	-4.0'	21.7	99.8	80.9	A
7	09/24/05	-4.0'	14.8	115.2	93.4	A(Rt#6)
8	09/24/05	-3.0'	14.0	115.8	93.8	A
9	09/24/05	-2.0'	13.8	116.5	94.4	A
10	09/24/05	-1.0'	16.4	111.6	90.4	A
11	09/24/05	SURFACE	15.0	115.2	93.4	A

Job No: 11223-S2-J1

LABORATORY TEST RESULTS SUMMARY
COMPACTON CURVE:



DESCRIPTION: BROWN SANDY CLAY

LABORATORY TEST PROCEDURE: ASTM D1557

MAXIMUM DRY DENSITY: 123.4 p.c.f.

OPTIMUM MOISTURE CONTENT: 12.0%