

C A M B R I A

May 16, 2001

Don Hwang
Alameda County
Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **Subsurface Investigation Report**
Former Shell-branded Service Station
2703 Martin Luther King Jr. Way
Oakland, California 94112
Incident # 97093397
Cambria Project # 243-0781



Dear Mr. Hwang:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation Report*. This submittal is being made in response to the Alameda County Health Care Services Agency (ACHCSA) correspondence dated September 23, 1999 and subsequent correspondences about the referenced site. This report addresses the request by the ACHCSA for further assessment of the subsurface conditions onsite. Summarized herein are the site background, investigation activities and results.

SITE SUMMARY

Site Location: This former Shell-branded service station is located on the northwest corner of the intersection of Martin Luther King Jr. Way and 27th Street in Oakland, California. The site is surrounded primarily by residential dwellings, but some light commercial development is included.

Site Lithology: The site is predominantly underlain by clay and clayey sand with lesser occurrences of silt and silty sand to a maximum explored depth of 21 feet below grade (fbg).

Groundwater Flow and Direction: Historically, groundwater depths have ranged from approximately 4.5 to 10 fbg. Groundwater flow direction has fluctuated from southeast to southwest.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

SITE BACKGROUND

A Shell service station operated on the property from approximately 1959 to 1979. The underground storage tanks (USTs) associated with the former Shell service station were removed after Shell terminated operations at the site.

In 1979, Acme West Ambulance Company (Acme) purchased the site and installed a 2,000-gallon UST for gasoline storage. Acme sold the property to Auto-Tech West (ATW) in 1986. ATW reportedly never used the UST.

Currently, the site is occupied by ATW and is utilized as an automotive repair shop.

1994 UST Removal: The 2,000-gallon UST was removed on October 11, 1994 by KTW & Associates. Two soil samples were collected from beneath the tank (Figure 2). Chemical analysis of the soil samples identified the presence of total petroleum hydrocarbons as gasoline (TPHg) at concentrations ranging from 870 parts per million (ppm) to 18,000 ppm. Benzene concentrations in these samples ranged from 2.9 ppm to 100 ppm. The tank pit remained open until March 19, 1996 when the excavation was back-filled by a Shell contractor.

1995 Phase I Environmental Site Assessment (ESA): In August and September 1995, Enviros Inc. (Enviros) performed a Phase I ESA for this site. Available information collected during this ESA indicated that the subject property was occupied by residential housing prior to approximately 1959. A building permit to erect a building was obtained for Shell Oil Company in February 1959. A building permit to "close lube bays with sheet metal panels" was secured for Shell Oil Company in July 1976.

In 1979, several building permits were secured for Acme to modify existing site structures. Two building permits secured in 1979 related to the installation of a fuel pump at the site.

During a site survey, an excavation was observed near the southwest corner of the service building. The excavation was covered by a blue tarp. The location of this excavation is consistent with the location of the large concrete slab observed in the aerial photographs taken in 1971 and 1973 and the smaller concrete slab observed in the aerial photograph.

1995 Subsurface Investigation: A site assessment was performed by ACC Environmental Consultants on May 23, 1995. This included drilling nine soil borings in the vicinity of the former USTs and product dispenser islands with a pneumatic sampling tool, and collecting soil and groundwater samples for chemical analysis (Figure 2). Concentrations of TPHg in soil samples ranged from <20.0 ppm to 830 ppm. Benzene concentrations ranged from <1.0 ppm to 1.8 ppm. SPH were

identified in water samples collected from four of the soil borings. TPHg concentrations in the non-SPH water samples submitted for chemical analysis ranged from <50 parts per billion (ppb) to 89,000 ppb. Benzene concentrations in the water samples ranged from <0.5 ppb to 21,000 ppb.

Over-excavation and back-filling of Acme's former UST excavation were performed on March 19, 1996. The excavation, originally left open to 9 fbg, was over-excavated to approximately 11 fbg. Two soil samples (TP-3-W and TP-4-E) were collected from the bottom of the over-excavated former UST area. Soil sample TP-3-W, collected from the western end of the excavation, contained 560 ppm TPHg and 3.1 ppm benzene. Soil sample TP-4-W, collected from the eastern end of the excavation, contained 2,700 ppm TPHg and <3.0 ppm benzene. The excavation was back-filled with clean imported fill material. Soil sampling and back-filling activities are documented in Enviro's May 10, 1996 correspondence.

1996 Subsurface Investigation: In July 1996, Enviro performed additional site assessment activities. Six exploratory borings (B-10, B-11, B-12, B-13, V-1, and V-2) were drilled and sampled on July 17 and 19, 1996 using a hollow-stem auger drill rig. Borings B-11 and B-12 were completed as groundwater monitoring wells MW-1 and MW-2, and borings V-1 and V-2 were completed as soil vapor extraction wells V-1 and V-2, respectively. Soil sampling was not performed in boring V-1 due to the fact that it was installed into the back-fill material within the former UST excavation. A soil sample from below the saturated zone in boring V-2 was submitted for physical parameter analyses (porosity, permeability, fractional organic carbon content, and dry bulk density).


TPHg and benzene were not detected in soil samples collected from MW-1 (B-11), MW-2 (B-12) and B-13. TPHg was detected in soil samples collected from B-10 and V-2 at concentrations of 1.7 ppm and 110 ppm, respectively. Benzene concentrations in soil samples from B-10 and V-2 were <0.0050 ppm and 0.29 ppm, respectively.

Grab groundwater samples were collected from borings B-10, B-12 (MW-2), and B-13 at the depth of first encountered groundwater for chemical analysis (approximately 8 to 11 fbg). Boring B-11 did not yield sufficient groundwater for grab groundwater sample collection. Monitoring wells MW-1 and MW-2 were developed and sampled on August 2, 1999 by Blaine Tech Services (Blaine) of San Jose, CA.

TPHg concentrations in monitoring wells onsite ranged from <50 ppb to 290,000 ppb. Benzene concentrations ranged from <0.50 ppb to 34,000 ppb.

1997 Modified Phase I ESA: In February 1997, Enviro performed a modified Phase I ESA for the subject facility. A review of aerial photographs (1952 to 1994), city directories (1967 to 1993) and Sanborn maps (1912 to 1970) did not reveal evidence of an off-site source of petroleum hydrocarbons which would have impacted groundwater onsite. The properties located north and west of the subject

facility appear to have been occupied by residential houses from at least 1912 to the present. The nearest gasoline stations identified in the vicinity of the subject facility were a former Chevron station (740 27th Street @ West) approximately 450 feet to the west, a former station (26th Street and MLK Jr. Way) approximately 300 feet to the south, and a former Mobil station (554 27th Street) to the east.



Groundwater Monitoring: Quarterly groundwater monitoring has been on-going at the site since August 1996. Samples analyzed from monitoring wells MW-1 and MW-2 have been below detection limits for TPHg, benzene, ethylbenzene, and xylenes for every quarterly monitoring event. On January 18, 1999, toluene was detected in MW-1 at 0.785 ppb and methyl tert-butyl ether (MTBE) was detected in MW-1 at 2.36 ppb (by EPA method 8020). Toluene was detected in MW-2 at 0.69 ppb on July 17, 1996 and at 0.971 ppb on January 18, 1999, and MTBE was detected in well MW-2 at 6.3 ppb on January 9, 1998 and at 2.47 ppb on January 18, 1999 (by EPA method 8020). Well V-1, installed within the former UST excavation, has had concentrations of TPHg ranging from <50 ppb to 57,000 ppb, benzene ranging from <0.50 ppb to 5,200 ppb, and MTBE ranging from <2.5 ppb to 1,900 ppb (by EPA method 8020). A reported MTBE concentration of 1,900 ppb in V-1 (sampled on October 24, 1997) was <200 ppb when confirmed by EPA method 8260. Well V-2, located down-gradient of the former UST excavation, has had concentrations of TPHg ranging from 7,300 ppb to 90,000 ppb, benzene ranging from 1,100 ppb to 10,200 ppb, and MTBE ranging from <250 ppb to 750 ppb (by EPA method 8020). During two sampling events (July 2, 1997 and October 24, 1997) MTBE concentrations in V-2, reported as 530 ppb and 120 ppb respectively when analyzed by EPA Method 8020, were both found to be below detection limits when analyzed by EPA Method 8260.

INVESTIGATION PROCEDURES

Sensitive Receptor Survey: To evaluate the presence of sensitive receptors in the site vicinity, Cambria performed a sensitive receptor survey which attempted to identify wells and underground utility conduits which may be impacted by subsurface conditions onsite.

Cambria obtained well installation and destruction records from the California Department of Water Resources (DWR) in order to identify any active water producing wells in the vicinity of the site which may be at risk to petroleum hydrocarbon impact due to contaminant migration from the subsurface of the site. DWR records did not identify any existing wells within a ½-mile radius of the site. Based on this information, it is not likely that any wells are at risk to impact from subsurface contaminant migration from the subject site.



Cambria obtained utility conduit maps from the City of Oakland Engineering Department to locate and map underground utility conduits which may act as preferential pathways for contaminant migration from the site. These conduit trenches are typically back-filled with materials which are more permeable than the surrounding native soils, therefore providing a path of least resistance for petroleum hydrocarbon migration within the local groundwater. Using these maps, Cambria identified the sanitary and storm sewer systems as the only utility conduits in the site vicinity which may act as preferential pathways. All other utilities are typically buried at depths which are shallower than those of the sewer systems which must be graded for gravitational flow within the conduit. The utility conduits identified are shown on Figure 2. Conduits identified in the area are located at depths of approximately 3.5 to 9 fbg. Therefore, the potential does exist for groundwater to flow within these conduit trenches. Groundwater depth onsite historically ranges from approximately 4.5 to 10 fbg. However, since the typical groundwater flow direction onsite has generally been to the south, it is likely that any contaminant migration within the utility conduits would be limited, since the utility conduits located to the south of the site are the shallowest of all the conduits identified adjacent to the site at depths of 3.5 to 5.5 fbg.

Subsurface Investigation Procedures: Using a hollow-stem auger drill rig, Cambria advanced six borings onsite, three of which were completed as 4-inch diameter monitoring wells. All well and boring locations are shown on Figure 2. Cambria's *Standard Field Procedures for Soil Borings* and *Standard Field Procedures for Monitoring Wells* are included as Attachment A.

Permits: Drilling permits were obtained from the City of Oakland Public Works Agency for the advancement of six soil borings and the installation of three monitoring wells (Permit #s W00-841, W00-842, W00-843, and W00-844). Copies of the drilling permits and DWR well completion reports are included in Attachment B.

Drilling Dates: November 21-22, 2000.

Drilling Company: Gregg Drilling of Martinez, California (C-57 License #485165).

Personnel Present:	Title:	Company:
Barbara Jakub	Project Geologist	Cambria
Bob Deason	Driller	Gregg Drilling

Soil Lithology: The area is underlain primarily by clays, sands and silts to a depth of 21 fbg, the maximum explored depth onsite. Soil boring logs from this investigation are included as Attachment C.

Soil Sampling: During drilling activities, Cambria collected soil samples at five-foot intervals to the depth of first-encountered groundwater in each boring/well. Soil samples were collected using a

split-spoon soil sampling device. All samples were submitted to Kiff Analytical of Davis, California for chemical analyses. Analytical results for soil samples are summarized in Table 1. Laboratory analytical results are presented as Attachment D.

Groundwater Sampling: Groundwater was first encountered in soil borings during this investigation at depths ranging from approximately 10 to 15 fbg. Grab groundwater samples were collected from borings B17, B18, and B19. Analytical results for these groundwater samples are summarized in Table 2. Laboratory analytical results are presented as Attachment D.

Laboratory Analyses: Selected soil samples and groundwater samples from each boring were analyzed for TPHg, benzene, ethylbenzene, toluene and xylenes (BTEX), MTBE, tertiary amyl methyl ether, diisopropyl ether, ethyl tertiary butyl ether, and tertiary butyl alcohol (TBA) by EPA Method 8260B.

Analytical results for soil samples are summarized in Table 1. Analytical results for groundwater samples are summarized in Table 2.

Well Development and Sampling: The newly installed wells will be developed and sampled by Blaine during the second quarter 2001. The new monitoring wells will be sampled quarterly by Blaine as part of ongoing quarterly monitoring activities for this site. The results of these sampling events will be presented in forthcoming quarterly monitoring reports.

Soil Disposal: Drill cuttings from this project were sampled for characterization and stockpiled onsite prior to disposal at Forward Landfill in Manteca, California. The soil stockpile analytical data is presented as Attachment E.

Oxygen Releasing Compound (ORC) Installation: As proposed in the December 10, 1999 work plan, ORC will be installed in wells V-1 and V2 during the second quarter 2001 monitoring event.

FINDINGS

Hydrocarbon Distribution in Soil: Detected TPHg concentrations in soil ranged from <1.0 to 2,100 milligrams/kilogram (mg/kg or ppm). Benzene was detected in soil samples ranging from <0.0050 to 3.3 ppm. MTBE was detected in one soil sample (B18-7.0) at 0.0070 ppm, and TBA was detected in samples MW4-5.0 and B19-5.0 at 0.0079 and 0.0059 ppm, respectively. Laboratory analytical results for soil samples are summarized in Table 1.

Hydrocarbon Distribution in Groundwater: Grab groundwater samples were collected from borings B17 through B19 for analyses during this investigation. Newly installed wells MW-3, MW-4 and MW-6 will be sampled as part of ongoing quarterly monitoring activities at this site beginning in the second quarter 2001. TPHg concentrations in grab water samples collected from borings ranged from 58,000 to 190,000 micrograms per liter ($\mu\text{g/l}$ or ppb). Benzene concentrations ranged from 4,400 to 13,000 ppb. MTBE was detected in groundwater at concentrations of 16 ppb and 300 ppb from B19 and B17, respectively, and TBA was detected at 240 ppb in B19. SPH were not observed during this investigation. Laboratory analytical results for groundwater samples are summarized in Table 2. Laboratory analytical reports are included in Attachment D.



CONCLUSIONS

Grab groundwater samples collected in the vicinity of the former USTs show elevated levels of TPHg and benzene. MTBE was also identified in these samples. Concentrations detected in these grab samples are consistent with detections in the wells VW-1 and VW-2, located in the vicinity of former source areas. Newly installed wells MW-3, MW-4 and MW-5 will be monitored and sampled to further evaluate groundwater concentrations and trends.

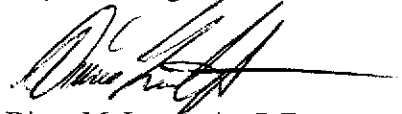
CLOSING

Please call Jacquelyn Jones at (510) 420-3316 if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



Jacquelyn L. Jones
Project Geologist



Diane M. Lundquist, P.E.
Principal Engineer



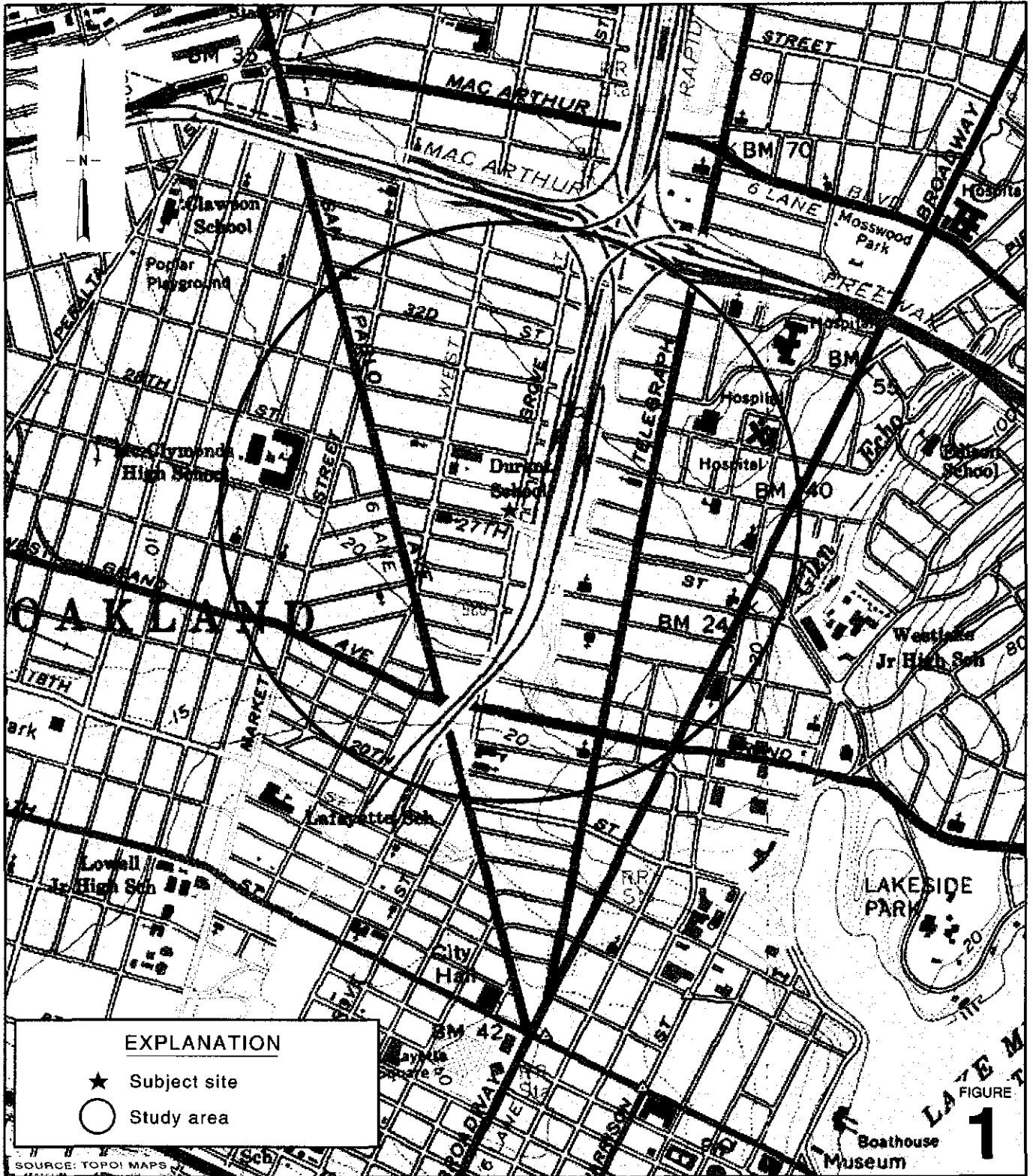
Figures: 1 - Area Well Survey
 2 - Monitoring Well and Underground Utility Location Map

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

Attachments: A - Standard Procedures for Soil Borings and Monitoring Wells
 B - Drilling Permits and DWR Well Completion Forms
 C - Soil Boring Logs
 D - Laboratory Analytical Results for Soil and Groundwater Samples
 E - Soil Stockpile Laboratory Analytical Results

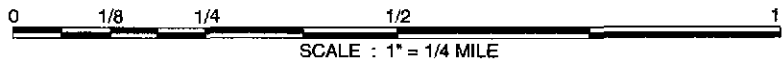
cc: Karen Petryna, Equiva Services LLC, P.O. Box 7689, Burbank, California 91510-7869
 Rodney and Janet Kwan, 1834 Alameda Avenue, Alameda, California, 94501

G:\OAKLAND 2703 MLK\FIGURES\WELL-SURVEY.A1



EXPLANATION

- ★ Subject site
- Study area

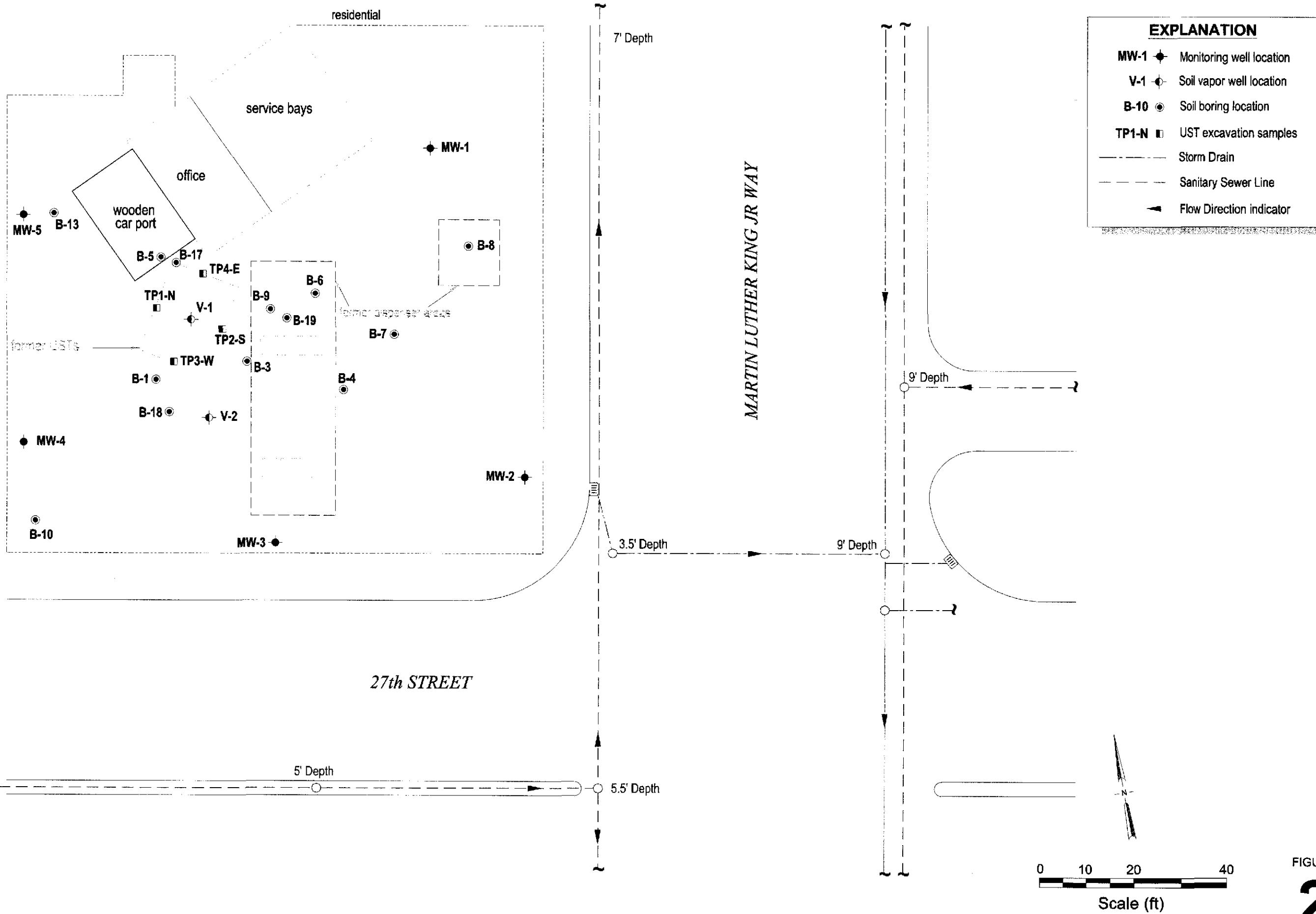


Former Shell Service Station
 2703 Martin Luther King Jr. Way
 Oakland, California
 Incident #97093397



Area Well Survey
 (1/2 - Mile Radius)

LAKESIDE PARK
 Boathouse Museum
 FIGURE 1



G:\OAKLAND 2703 MLK\FIGURES\UTILITIES.DWG

Monitoring Well and Underground Utility Location Map



C A M B R I A

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
Incident #97093397

FIGURE
2

Table 1. Soil Analytical Data - Former Shell Service Station, Incident # 97093397, 2703 Martin Luther King, Jr., Blvd., Oakland, California

Sample ID	Depth (ft)	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
			← Concentrations reported in milligrams per kilogram (mg/kg or ppm) →						
MW3-5.0	5	11/22/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW3-10.5	10.5	11/22/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW4-5.0	5	11/21/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0079
MW4-10.5	10.5	11/21/00	860	1.1	<0.20	18	66	<0.20	<2.0
MW5-5.0	5	11/21/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW5-10.5	10.5	11/21/00	1,300	3.3	13	26	140	<0.20	<2.0
B17-5.0	5	11/22/00	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B17-7.0	7	11/22/00	2,100	0.31	0.64	18	140	<0.050	<0.050
B18-5.0	5	11/22/00	1.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B18-7.0	7	11/22/00	42	<0.0050	<0.0050	0.094	<0.0050	0.0070	<0.050
B19-5.0	5	11/22/00	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0059
B19-7.0	7	11/22/00	2.4	0.02	<0.0050	0.025	0.023	<0.0050	<0.020

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether

TBA = tertiary butyl alcohol

All analyses performed by EPA Method 8260B

<n = Below detection limit of n mg/kg

Table 2. Groundwater Analytical Data - Former Shell Service Station, Incident # 97093397, 2703 Martin Luther King, Jr., Blvd., Oakland, California

Sample ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
		Concentrations reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$ or ppm)						
B17	11/22/00	190,000	13,000	24,000	5,500	30,000	300	<2,000
B18	11/22/00	90,000	3,500	370	5,000	18,000	<20	<200
B19	11/22/00	58,000	4,400	740	2,200	7,300	16	240

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether

TBA = tertiary butyl alcohol

All analyses performed by EPA Method 8260B

<n = Below detection limit of n mg/kg

ATTACHMENT A

Standard Field Procedures for Soil Borings and Monitoring Wells

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned 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 Analysis

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.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

CAMBRIA

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. 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. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

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.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Ground water monitoring wells are installed to monitor ground water quality and determine the ground water elevation, flow direction and gradient. Well depths and screen lengths are based on ground water depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 ft below and 5 ft above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three ft thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two ft thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

CAMBRIA

Well Development

Wells are generally developed using a combination of ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of ground water are extracted and the sediment volume in the ground water is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water pH, conductivity, and temperature have stabilized. Ground water samples are collected using bailers or pumps and 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. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

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ATTACHMENT B

Drilling Permits and DWR Well Completion Forms



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 Elmhurst St. Hayward, CA 94544
PHONE (510) 470-5524
FAX (510) 182-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 2703 Martin Luther King
Oakland, CA

PERMIT NUMBER W00-841
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name Eguda Services LLC
Address PO Box 7849 Phone _____
City Burbank, CA 91510 Zip _____
7669

APPLICANT Name Cambric Environmental - Tray Buggle
Address 1144 Park St. Suite B Fax 510 420 9170
City Oakland, CA Phone 510 420 3333
Zip 94608

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

3 Soil borings and 3 Monitoring wells

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other _____

DRILLER'S LICENSE NO. CS7 485-165 Gregg Drilling

WELL PROJECTS

Drill Hole Diameter 10 in. Maximum 20 ft.
Casing Diameter 4 in. Depth 20 ft.
Surface Seal Depth 25 ft. Number W00-11

GEOTECHNICAL PROJECTS

Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 11/21/00
ESTIMATED COMPLETION DATE 11/22/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Tray Buggle DATE 11/16/00

A. GENERAL

- 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
- 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
- 3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, grouted cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

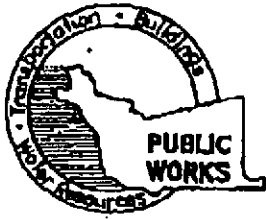
F. WELL DESTRUCTION

See attached.

G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 11-20-00

Post-It* Fax Note	7871	Date	11/16/00	# of pages	2
To	James Yoo	From	Tray BUGGLE		
Co./Dept.		Co.	Cambric		
Phone #	670 6633	Phone #	510 420 3333		
Fax #	782 1939	Fax #	510 420 9170		



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 Environmental St. Hayward, Ca. 94544

(510) 470-5599

FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 2703 Martin Luther King
Oakland, CA

PERMIT NUMBER W00-842

WELL NUMBER _____
APN _____

CLIENT Name Eguia Services LLC

Address PO Box 744 Phone _____
City Purbaud, CA 91510 Zip _____
7669

APPLICANT Name Cambria Environmental - Troy Buggle

Address 1144 16th St. Suite B Phone 510 420 9170
City Oakland, CA Zip 94608

TYPE OF PROJECT

- | | | | |
|---------------------|-------------------------------------|----------------------------|--------------------------|
| Well Construction | <input type="checkbox"/> | Geotechnical Investigation | <input type="checkbox"/> |
| Cathodic Protection | <input type="checkbox"/> | General | <input type="checkbox"/> |
| Water Supply | <input type="checkbox"/> | Contamination | <input type="checkbox"/> |
| Monitoring | <input checked="" type="checkbox"/> | Well Destruction | <input type="checkbox"/> |

3 Soil Borings and 3 Monitoring Wells

- | | |
|--------------------------------|--------------------------|
| PROPOSED WATER SUPPLY WELL USE | |
| New Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> |
| Replacement Domestic | <input type="checkbox"/> |
| Irrigation | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|--------------------------|-------|-------------------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input checked="" type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | | | |

DRILLER'S LICENSE NO. CS7 485-165 Gregg Drilling

WELL PROJECTS

Drill Hole Diameter	<u>10</u> in.	Maximum	<u>20</u> ft.
Casing Diameter	<u>4</u> in.	Depth	<u>20</u> ft.
Surface Seal Depth	<u>25</u> ft.	Number	<u>MW-4</u>

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	_____
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 11/21/00
ESTIMATED COMPLETION DATE 11/22/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Troy Buggle DATE 11/16/00

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUND WATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tamped cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

See attached.

G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 11-20-00

Post-It Fax Note	7671	Date	11/16/00	Page	2
To	James Yoo	From	Troy BUGGLE		
Co/Dept		Co.	Cambria		
Phone #	670 6633	Phone #	510 420 3333		
Fax #	782 1939	Fax #	510 420 9170		



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 EIMMUNET ST. HAYWARD, CA 94544
PHONE (510) 678-5564
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2703 Martin Luther King
Oakland, CA

CLIENT Name Egura Services LLC
Address PO Box 7069 Phone _____
City Burbank, CA 91510 Zip _____
7069

APPLICANT Name Cambria Environmental - Troy Bugge
Address 1144 Lakeside Center Phone 510 420 3333
City Oakland, CA Zip 94608

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction
3 Soil borings and 3 Monitoring wells
PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other _____

DRILLER'S LICENSE NO. CS7 485-165 Gregg Drilling

WELL PROJECTS
Drill Hole Diameter 10 in. Maximum _____
Casing Diameter 4 in. Depth 20 ft.
Surface Seal Depth 25 ft. Number MIN-12

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum _____
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 11/21/00
ESTIMATED COMPLETION DATE 11/22/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Troy A. Bugge DATE 11/16/00

FOR OFFICE USE

PERMIT NUMBER W00-843
WELL NUMBER _____
APN _____

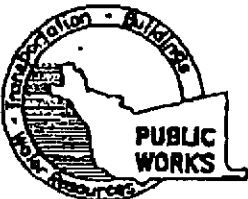
PERMIT CONDITIONS

Circled Permit Requirements Apply

- A. GENERAL**
 - 1. permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 - 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 - 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS**
 - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS, INCLUDING PIEZOMETERS**
 - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 - 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL**
Backfill bore hole with compacted cuttings or heavy bentonitic and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC**
Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION**
See attached.
- G. SPECIAL CONDITIONS**

APPROVED [Signature] DATE 11-20-00

Post-It® Fax Note	7671	Date	11/16/00	# of pages	2
To	James Yoo	From	Troy BUGGE		
Co./Dept.		Co.	Cambria		
Phone #	670 6633	Phone #	510 420 3333		
Fax #	782 1939	Fax #	510 420 9170		



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

349 Elmwood St., Hayward CA 94544
PHONE (510) 678-5501
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2703 Martin Luther King
Oakland, CA

CLIENT Name Egura Services LLC
Address PO Box 7479 Phone _____
City Burbank, CA 91510 - 7669 Zip _____

APPLICANT Name Cambria Environmental - Troy Bugge
Address 1144 67th St. Suite B Phone 510 420 3333
City Oakland, CA Zip 94608

TYPE OF PROJECT

- Well Construction
- Cathodic Protection
- Water Supply
- Monitoring
- Geotechnical Investigation
- General
- Contamination
- Well Destruction

3 Soil borings and 3 Monitoring wells

PROPOSED WATER SUPPLY WELL USE

- New Domestic
- Municipal
- Industrial
- Replacement Domestic
- Irrigation
- Other

DRILLING METHOD:

- Mud Rotary
- Cable
- Air Rotary
- Other
- Auger

DRILLER'S LICENSE NO. CS7 485-165 Gregg Drilling

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____

Casing Diameter _____ in. Depth _____ ft.

Surface Seal Depth _____ in. Number _____

GEOTECHNICAL PROJECTS

Number of Borings 3 Maximum _____

Hole Diameter 6" in. Depth 20' ft.

ESTIMATED STARTING DATE 11/21/00

ESTIMATED COMPLETION DATE 11/22/00

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 71-68.

APPLICANT'S SIGNATURE Troy A. Bugge DATE 11/16/00

FOR OFFICE USE

PERMIT NUMBER W00-844
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) GENERAL

1. permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B) WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

(C) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D) GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, rammed cement grout shall be used in place of compacted cuttings.

(E) CATHODIC

Fill hole above anode zone with concrete placed by tremie.

(F) WELL DESTRUCTION

See attached.

(G) SPECIAL CONDITIONS

APPROVED [Signature] DATE 11-20-00

Post-It® Fax Note	7871	Date	11/16/00	# of pages	2
To	James Yoo	From	Troy BUGGLE		
Co./Dept.		Co.	Cambria		
Phone #	670 6633	Phone #	510 420 3333		
Fax #	782 1939	Fax #	510 420 9170		

DUPLICATE
Driller's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

Page ___ of ___
Owner's Well No. MW-3 No. **785126**
Date Work Began 11/23/00, Ended 11/22/00
Local Permit Agency ALAMEDA COUNTY PUBLIC WORKS AGENCY
Permit No. W00-891 Permit Date 11/20/00

GEOLOGIC LOG

ORIENTATION (\angle) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)

DEPTH FROM SURFACE
Fl. to Fl.

DRILLING METHOD _____ FLUID _____

DESCRIPTION
Describe material, grain size, color, etc.

SEE ATTACHED LOG

TOTAL DEPTH OF BORING 20 (Feet)
TOTAL DEPTH OF COMPLETED WELL 20 (Feet)

WELL OWNER

Name EQUINA SERVICES LLC
Mailing Address P.O. Box 7869
BUENA CA 91710
CITY STATE ZIP

WELL LOCATION

Address 2703 MARTIN LUTHER KING
City OAKLAND
County ALAMEDA
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ NORTH Longitude _____ WEST
DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

SEE ATTACHED SITE MAP

ACTIVITY (\angle)

NEW WELL
 MODIFICATION/REPAIR
— Deepen
— Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (\angle)

WATER SUPPLY
— Domestic _____ Public _____
— Irrigation _____ Industrial _____

MONITORING
TEST WELL _____
CATHODIC PROTECTION _____
HEAT EXCHANGE _____
DIRECT PUSH _____
INJECTION _____
VAPOR EXTRACTION _____
SPARGING _____
REMEDICATION _____
OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 15 (FL) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL NA (FL) & DATE MEASURED NA
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (FL.)
* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE (\angle)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
		BLANK	SCREEN	CON- DOCTOR	FILL PIPE				
		<u>SEE ATTACHED</u>							

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL			
	TYPE			
	CE- MENT (\angle)	BEN- TONITE (\angle)	FILL (\angle)	FILTER PACK (TYPE/SIZE)
	<u>SEE ATTACHED</u>			

ATTACHMENTS (\angle)

Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other SIT MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME SIE LANDSITE/CAMBRIDGE ENVIRONMENTAL TECHNOLOGY
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

11421 65th St OAKLAND CA 94608
ADDRESS CITY STATE ZIP

Signed Gregg Drilling 5/14/01 057 485165
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Page of
Owner's Well No. MW-4 No. **785128**
Date Work Began 11/21/00, Ended 11/21/00
Local Permit Agency ALAMEDA COUNTY PUBLIC WORKS
Permit No. W00-842 Permit Date 11/20/00

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.									
LATITUDE					LONGITUDE				
APN/TRS/OTHER									

GEOLOGIC LOG

ORIENTATION (≠) VERTICAL HORIZONTAL ANGLE (SPECIFY)

DEPTH FROM SURFACE: Ft. to Ft.

DRILLING METHOD: FLUID:

DESCRIPTION: Describe material, grain size, color, etc.

SEE ATTACHED LOG

TOTAL DEPTH OF BORING 20 (Feet)
TOTAL DEPTH OF COMPLETED WELL 20 (Feet)

WELL OWNER

Name EQUINA SERVICES LLL
Mailing Address PO BOX 7869
BURBANK CA 91510
CITY STATE ZIP

WELL LOCATION

Address 2703 MARTIN LUTHER KING
City OAKLAND
County ALAMEDA
APN Book Page Parcel
Township Range Section
Latitude NORTH Longitude WEST

LOCATION SKETCH

SEE ATTACHED SITE MAP

ACTIVITY (≠)

NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (≠)

WATER SUPPLY
 Domestic Public
 Irrigation Industrial

MONITORING
TEST WELL
CATHODIC PROTECTION
HEAT EXCHANGE
DIRECT PUSH
INJECTION
VAPOR EXTRACTION
SPARGING
REMEDICATION
OTHER (SPECIFY)

WEST EAST SOUTH NORTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER NAE (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 8.9 (Ft.) & DATE MEASURED 11/22/00
ESTIMATED YIELD * (GPM) & TEST TYPE
TEST LENGTH (Hrs.) TOTAL DRAWDOWN (Ft.)
* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)				
		TYPE (≠) BLANK SCREEN CON. DUCTOR. FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
		<u>SEE ATTACHED</u>				

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL			
	CE-MENT (≠)	BEN-TONITE (≠)	FILL (≠)	FILTER PACK (TYPE/SIZE)
	<u>SEE ATTACHED</u>			

ATTACHMENTS (≠)

Geologic Log
 Well Construction Diagram
 Geophysical Log(s)
 Soil/Water Chemical Analyses
 Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME SUE LANDSITTEL / CAMBRIA ENVIRONMENTAL TECHNOLOG
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

1144 65th ST OAKLAND CA 94609
ADDRESS CITY STATE ZIP

Signed G. RECC DRILLING DATE SIGNED 11/21/01 057455165
WELL DRILLER/AUTHORIZED REPRESENTATIVE G-57 LICENSE NUMBER

DUPLICATE
Driller's Copy

STATE OF CALIFORNIA WELL COMPLETION REPORT

Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILE IN	
STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

Page of
 Owner's Well No. MW-5 No. 785127
 Date Work Began 11/21/00, Ended 11/21/00
 Local Permit Agency ALAMEDA COUNTY PUBLIC WORKS
 Permit No. W00-843 Permit Date 11/20/00

GEOLOGIC LOG

ORIENTATION () <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE <input type="checkbox"/> (SPECIFY)		Name <u>EQUINA SERVICES LLC</u>	
DEPTH FROM SURFACE <u> </u> FLUID <u> </u>		Mailing Address <u>PO BOX 7809</u>	
DESCRIPTION <u>SEE ATTACHED LOG</u>		<u>BURRANK</u> CA <u>94510</u>	
Drilling Method <u> </u> Describe material, grain size, color, etc.		CITY STATE ZIP	
		WELL LOCATION	
		Address <u>2703 MARTIN LUTHER KING</u>	
		City <u>OAKLAND</u>	
		County <u>ALAMEDA</u>	
		APN Book <u> </u> Page <u> </u> Parcel <u> </u>	
		Township <u> </u> Range <u> </u> Section <u> </u>	
		Latitude <u> </u> NORTH Longitude <u> </u> WEST	
		DEG. MIN. SEC. DEG. MIN. SEC.	
		LOCATION SKETCH	
		NORTH	
		<div style="border: 1px solid black; padding: 20px; display: inline-block;"> <p>SEE ATTACHED SITE MAP</p> </div>	
		ACTIVITY ()	
		<input checked="" type="checkbox"/> NEW WELL	
		MODIFICATION/REPAIR	
		<input type="checkbox"/> Deepen	
		<input type="checkbox"/> Other (Specify) <u> </u>	
		DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	
		<input type="checkbox"/> <u> </u>	
		PLANNED USES ()	
		WATER SUPPLY	
		<input type="checkbox"/> Domestic <input type="checkbox"/> Public	
		<input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial	
		<input checked="" type="checkbox"/> MONITORING	
		<input type="checkbox"/> TEST WELL	
		CATHODIC PROTECTION <input type="checkbox"/>	
		HEAT EXCHANGE <input type="checkbox"/>	
		DIRECT PUSH <input type="checkbox"/>	
		INJECTION <input type="checkbox"/>	
		VAPOR EXTRACTION <input type="checkbox"/>	
		SPARGING <input type="checkbox"/>	
		REMIEDIATION <input type="checkbox"/>	
		OTHER (SPECIFY) <u> </u>	
		SOUTH	
		Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.	
		WATER LEVEL & YIELD OF COMPLETED WELL	
		DEPTH TO FIRST WATER <u>10</u> (Ft.) BELOW SURFACE	
		DEPTH OF STATING <u> </u>	
		WATER LEVEL <u>9.0</u> (Ft.) & DATE MEASURED <u>11/22/00</u>	
		ESTIMATED YIELD <u> </u> (GPM) & TEST TYPE <u> </u>	
		TEST LENGTH <u> </u> (Hrs.) TOTAL DRAWDOWN <u> </u> (Ft.)	
		* May not be representative of a well's long-term yield.	
TOTAL DEPTH OF BORING <u>20</u> (Feet)		TOTAL DEPTH OF COMPLETED WELL <u>20</u> (Feet)	

DEPTH FROM SURFACE Fl. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)						DEPTH FROM SURFACE Fl. to Ft.	ANNULAR MATERIAL				
		TYPE ()				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE		
				BLANK	SCREEN			CONDUCTOR			FILL PIPE	CEMENT	BENTONITE
		SEE ATTACHED						SEE ATTACHED					

ATTACHMENTS ()

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other SITE MAP

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME SUE LANDSITTEL / CALIFORNIA ENVIRONMENTAL TECHNOLOGY
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

1144 65th ST OAKLAND CA 94608
ADDRESS CITY STATE ZIP

Signed WILLIAM J. JETT 5/1/01
WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED

451165
C-57 LICENSE NUMBER

ATTACHMENT C

Soil Boring Logs



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-3
JOB/SITE NAME	oak12703	DRILLING STARTED	22-Nov-00
LOCATION	2703 Martin Luther King, Oakland	DRILLING COMPLETED	22-Nov-00
PROJECT NUMBER	242-0781	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	B. Jakob	DEPTH TO WATER (First Encountered)	15.0 ft (22-Nov-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5'. Located approx. 57' east of the southern corner.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.2			ASPHALT	0.2	<p>Portland Type I/II Cement</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>4"-diam., 0.010" Slotted Schedule 40 PVC</p> <p>Bottom of Boring @ 20 ft</p>
				3.0			Clayey SILT (ML) ; yellow brown; damp; 35% clay, 60% silt, 3% sand, 2% gravel; high plasticity. @ 1' bgs- wood fragments; 40% clay, 60% silt. @ 2.5' bgs- black	3.0	
				5.0	ML		Sandy SILT (ML) ; dark grey; damp; 55 clay, 70% silt, 25% fine grained sand; low plasticity.	5.0	
		MW3-5.0		5.8	ML		Gravelly SILT (ML) ; yellow brown; dense; damp; 10% clay, 55% silt, 10% fine grained sand, 25% fine angular grained gravel; low plasticity.	5.8	
				6.3	ML		SILT (ML) ; yellow brown; damp to wet; 5% clay, 90% silt, 5% fine grained sand; medium plasticity.	6.3	
				10.0	ML		Clayey SILT (ML) ; yellow brown; very stiff; wet; 30% clay, 70% silt; high plasticity.	10.0	
		MW3-10.5		11.3	SM		Silty SAND (SM) ; yellow brown; dense; wet; 8% clay, 30% silt, 50% fine grained sand, 12% fine grained gravel; slight plasticity.	11.3	
				15.7	ML		Clayey SILT (ML) ; yellow brown; stiff; wet; 20% clay, 75% silt, 2% sand, 3% gravel; mottling; organics; medium plasticity.	15.7	
				19.2	SM		Silty SAND (SM) ; yellow brown; dense; saturated; 8% clay, 35% silt, 45% fine to medium grained sand; fine angular to sub angular gravel; low plasticity.	19.2	
				20.0	ML		Clayey SILT (ML) ; light olive brown; saturated; 20% clay, 80% silt; low plasticity.	20.0	

WELL LOG (TPH-G) G:\OACAE-1\GINT\OAK12703.GPJ_DEFAULT.GDT 3/8/01



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>MW-4</u>
JOB/SITE NAME	<u>oak12703</u>	DRILLING STARTED	<u>21-Nov-00</u>
LOCATION	<u>2703 Martin Luther King, Oakland</u>	DRILLING COMPLETED	<u>21-Nov-00</u>
PROJECT NUMBER	<u>242-0781</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>10"</u>	SCREENED INTERVAL	<u>5 to 20 ft bgs</u>
LOGGED BY	<u>B. Jakub</u>	DEPTH TO WATER (First Encountered)	<u>NA</u>
REVIEWED BY	<u>S. Bork, RG# 5620</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand augered to 5'. Located approx. 23' north of the southern corner.</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.1	GC		ASPHALT	0.1	
		MW4-5.0		1.0			Clayey GRAVEL(GC) ; dark yellowish brown; moist-damp; 15% clay, 10% silt, 5% sand, 70% gravel; no plasticity. Silty CLAY(CL) ; black; moist-damp; 60% clay, 40% silt; high plasticity. @ 3.5' fbgs- dark greenish gray.	1.0	
				5	CL		@ 5' bgs- mottled; 60% clay, 25% silt, 15% fine grained sand.		
		MW4-10.5		10			Clayey SAND (SP) ; olive gray/dark yellow brown; moist-wet; 25% clay, 10% silt, 65% fine grained sand; mottled; medium to high plasticity.	10.0	
				15	SP		@ 15' bgs- 25% clay, 10% silt, 55% sand, 10% gravel.		
				18.5			Gravelly SILT (ML) ; olive brown; saturated; 10% clay, 60% silt, 5% sand, 25% gravel; low plasticity.	18.5	
				20	ML			20.0	

WELL LOG (TPH-G) G:\0ABCAE-1\GINT\OAK12703.GPJ DEFAULT.GDT 3/8/01



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 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-5
JOB/SITE NAME	oak12703	DRILLING STARTED	21-Nov-00
LOCATION	2703 Martin Luther King, Oakland	DRILLING COMPLETED	21-Nov-00
PROJECT NUMBER	242-0781	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	10.0 ft (22-Nov-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5'. Located approx. 10' east of the car port.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.2			ASPHALT	0.2	<p>Portland Type I/II Cement</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>4"-diam., 0.010" Slotted Schedule 40 PVC</p> <p>Bottom of Boring @ 20 ft</p>
				1.2			FILL brown; dense; dry; 40% silt, 10% sand, 50% gravel; low plasticity.	1.2	
				3.0	ML		Clayey SILT (ML) very dark brown; very stiff; dry; 40% clay, 60% silt; medium plasticity.	3.0	
				5.0	SM		Silty SAND (SM) ; very dark brown; dense; damp; 10% clay, 35% silt, 53% fine grained sand, 2% gravel; low plasticity.	5.0	
		MW5-5.0		5					
				10	ML		Clayey SILT (ML) ; olive brown; very stiff; dry to moist; 25% clay, 50% silt, 23% sand, 2% gravel; low plasticity.	10	
				10					
		MW5-10.5		10			@ 10' bgs- saturated; 40% clay, 60% silt; medium to high plasticity.	10	
				11.3	SC		Clayey SAND(SC) ; dark greenish grey; very stiff; saturated; 15% clay, 13% silt, 70% fine grained sand, 2% fine subangular grained gravel; low plasticity.	11.3	
				15.0				15.0	
				15	ML		Gravelly SILT (ML) ; olive brown; saturated; 10% clay, 70% silt, 5% fine grained sand, 2% fine subangulare grained gravel; low plasticity.	15.0	
				20				20.0	
				20			@ 18.5' bgs- interbedded silt and gravelly silt; yellowish brown; saturated; 5% clay, 90% silt, 5% gravel; low plasticity.	20.0	

WELL LOG (TPH-G) G:\OARCAE-1\GINT\OAK12703.GPJ DEFAULT.GDT 3/8/01



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>B-17</u>
JOB/SITE NAME	<u>oaki2703</u>	DRILLING STARTED	<u>22-Nov-00</u>
LOCATION	<u>2703 Martin Luther King, Oakland</u>	DRILLING COMPLETED	<u>22-Nov-00</u>
PROJECT NUMBER	<u>242-0781</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>7"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>B. Jakub</u>	DEPTH TO WATER (First Encountered)	<u>13.0 ft (22-Nov-00)</u>
REVIEWED BY	<u>S. Bork, RG# 5620</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand augered to 5'. Located approx. 28' north of B-18.</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.2			ASPHALT Clayey SILT (ML); very dark brown; stiff; damp; 40% clay, 60% silt; medium plasticity.	0.2	
		B17-5.0		5	ML		Silty SAND (SM) ; black; damp; 5% clay, 25% silt, 70% fine grained sand; low plasticity.	5.0	
		B17-7.0		7					
				10	SM				
				15					Bottom of Boring @ 15 ft



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>B-18</u>
JOB/SITE NAME	<u>oak12703</u>	DRILLING STARTED	<u>22-Nov-00</u>
LOCATION	<u>2703 Martin Luther King, Oakland</u>	DRILLING COMPLETED	<u>22-Nov-00</u>
PROJECT NUMBER	<u>242-0781</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>7"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>B. Jakob</u>	DEPTH TO WATER (First Encountered)	<u>14.6 ft (22-Nov-00)</u> ▽
REVIEWED BY	<u>S. Bork, RG# 5620</u>	DEPTH TO WATER (Static)	<u>NA</u> ▽
REMARKS	<u>Hand augered to 5'. Located approx. 30' south of the car port.</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.2			ASPHALT Clayey SILT (ML); black; very stiff; 40% clay, 60% silt; high plasticity.	0.2	
		B18-5.0		3.0 - 5.0	ML		Sandy SILT (ML); dark grey; 5% clay, 70% silt, 25% fine grained sand; low plasticity.	3.0	
		B18-7.0		7.0	ML		@ 7' bgs- dark olive grey	7.0	
				10.0			Silty SAND (SM); yellow brown; wet; 8% clay, 30% silt, 50% fine grained sand, 12% fine grained gravel.	10.0	
				15.0	SM			15.0	



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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	B-19
JOB/SITE NAME	oak12703	DRILLING STARTED	22-Nov-00
LOCATION	2703 Martin Luther King, Oakland	DRILLING COMPLETED	22-Nov-00
PROJECT NUMBER	242-0781	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	7"	SCREENED INTERVAL	NA
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	15.0 ft (22-Nov-00)
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5'. Located approx. 50' north of MW-3.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.2			ASPHALT Clayey SILT (ML); black; very stiff; 40% clay, 60% silt; high plasticity.	0.2	
		B19-5.0		3.0	ML		Sandy SILT (ML); dark grey; 5% clay, 70% silt, 25% fine grained sand; low plasticity.	3.0	
		B19-7.0		5.0	ML		Clayey SILT (ML); brown; very stiff; moist; 40% clay, 60% silt; high plasticity.	7.0	
				10.0	ML		Silty SAND (SM); yellow brown; stiff; wet; 8% clay, 30% silt, 50% fine grained sand, 12% fine grained gravel; low plasticity.	10.0	
				15.0	SM			15.0	
				20.0				20.0	Bottom of Boring @ 20 ft

WELL LOG (TPHG) G:\OACBAE-1\GINT\OAK12703.GPJ DEFAULT.GDT 3/8/01

ATTACHMENT D

Laboratory Analytical Reports for Soil and Groundwater Samples



Report Number : 18436

Date : 12/08/2000

Barbara Jakub
Cambria Environmental Technology, Inc.
1144 65th St. Suite B
Oakland, CA 94608

Subject : 3 Water Samples and 12 Soil Samples
Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA
Project Number : 242-0781
P.O. Number : 97093397

Dear Ms. Jakub,

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 that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-3-5.0

Matrix : Soil

Lab Number : 18436-05

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/2000
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/03/2000
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	12/03/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-3-10.5

Matrix : Soil

Lab Number : 18436-06

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-4-5.0

Matrix : Soil

Lab Number : 18436-01

Sample Date :11/21/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-Butanol	0.0079	0.0050	mg/Kg	EPA 8260B	12/04/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-4-10.5

Matrix : Soil

Lab Number : 18436-02

Sample Date : 11/21/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.1	0.20	mg/Kg	EPA 8260B	12/04/2000
Toluene	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Ethylbenzene	18	0.20	mg/Kg	EPA 8260B	12/04/2000
Total Xylenes	66	0.20	mg/Kg	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Diisopropyl ether (DIPE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 0.20	0.20	mg/Kg	EPA 8260B	12/04/2000
Tert-Butanol	< 2.0	2.0	mg/Kg	EPA 8260B	12/04/2000
TPH as Gasoline	860	20	mg/Kg	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-5-5.0

Matrix : Soil

Lab Number : 18436-03

Sample Date :11/21/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/04/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : MW-5-10.0

Matrix : Soil

Lab Number : 18436-04

Sample Date : 11/21/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3.3	0.20	mg/Kg	EPA 8260B	12/05/2000
Toluene	13	0.20	mg/Kg	EPA 8260B	12/05/2000
Ethylbenzene	26	0.20	mg/Kg	EPA 8260B	12/05/2000
Total Xylenes	140	0.20	mg/Kg	EPA 8260B	12/05/2000
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Diisopropyl ether (DIPE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Ethyl-t-butyl ether (ETBE)	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Tert-amyl methyl ether (TAME)	< 0.20	0.20	mg/Kg	EPA 8260B	12/05/2000
Tert-Butanol	< 2.0	2.0	mg/Kg	EPA 8260B	12/05/2000
TPH as Gasoline	1300	20	mg/Kg	EPA 8260B	12/05/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	12/05/2000
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	12/05/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B17-5.0

Matrix : Soil

Lab Number : 18436-13

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
TPH as Gasoline	1.3	1.0	mg/Kg	EPA 8260B	12/01/2000
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/01/2000
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/01/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B17-7.0

Matrix : Soil

Lab Number : 18436-14

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.31	0.050	mg/Kg	EPA 8260B	12/06/2000
Toluene	0.64	0.050	mg/Kg	EPA 8260B	12/06/2000
Ethylbenzene	18	0.050	mg/Kg	EPA 8260B	12/06/2000
Total Xylenes	140	0.50	mg/Kg	EPA 8260B	12/06/2000
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	mg/Kg	EPA 8260B	12/06/2000
Diisopropyl ether (DIPE)	< 0.050	0.050	mg/Kg	EPA 8260B	12/06/2000
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	mg/Kg	EPA 8260B	12/06/2000
Tert-amyl methyl ether (TAME)	< 0.050	0.050	mg/Kg	EPA 8260B	12/06/2000
Tert-Butanol	< 0.050	0.050	mg/Kg	EPA 8260B	12/06/2000
TPH as Gasoline	2100	50	mg/Kg	EPA 8260B	12/06/2000
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	12/06/2000
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/06/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B17-GW

Matrix : Water

Lab Number : 18436-15

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	13000	200	ug/L	EPA 8260B	12/03/2000
Toluene	24000	200	ug/L	EPA 8260B	12/03/2000
Ethylbenzene	5500	200	ug/L	EPA 8260B	12/03/2000
Total Xylenes	30000	200	ug/L	EPA 8260B	12/03/2000
Methyl-t-butyl ether (MTBE)	300	200	ug/L	EPA 8260B	12/03/2000
Diisopropyl ether (DIPE)	< 200	200	ug/L	EPA 8260B	12/03/2000
Ethyl-t-butyl ether (ETBE)	< 200	200	ug/L	EPA 8260B	12/03/2000
Tert-amyl methyl ether (TAME)	< 200	200	ug/L	EPA 8260B	12/03/2000
Tert-Butanol	< 2000	2000	ug/L	EPA 8260B	12/03/2000
TPH as Gasoline	190000	20000	ug/L	EPA 8260B	12/03/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	12/03/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/03/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B18-5.0

Matrix : Soil

Lab Number : 18436-10

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
TPH as Gasoline	1.2	1.0	mg/Kg	EPA 8260B	12/06/2000
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/06/2000
4-Bromofluorobenzene (Surr)	93.6		% Recovery	EPA 8260B	12/06/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B18-7.0

Matrix : Soil

Lab Number : 18436-11

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Ethylbenzene	0.094	0.0050	mg/Kg	EPA 8260B	12/07/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Methyl-t-butyl ether (MTBE)	0.0070	0.0050	mg/Kg	EPA 8260B	12/07/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2000
Tert-Butanol	< 0.050	0.050	mg/Kg	EPA 8260B	12/07/2000
TPH as Gasoline	42	1.0	mg/Kg	EPA 8260B	12/07/2000
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	12/07/2000
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	12/07/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B18-GW

Matrix : Water

Lab Number : 18436-12

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3500	20	ug/L	EPA 8260B	12/02/2000
Toluene	370	20	ug/L	EPA 8260B	12/02/2000
Ethylbenzene	5000	20	ug/L	EPA 8260B	12/02/2000
Total Xylenes	18000	20	ug/L	EPA 8260B	12/02/2000
Methyl-t-butyl ether (MTBE)	< 20	20	ug/L	EPA 8260B	12/02/2000
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	12/02/2000
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	12/02/2000
Tert-amyl methyl ether (TAME)	< 20	20	ug/L	EPA 8260B	12/02/2000
Tert-Butanol	< 200	200	ug/L	EPA 8260B	12/02/2000
TPH as Gasoline	90000	2000	ug/L	EPA 8260B	12/02/2000
Toluene - d8 (Surr)	97.0		% Recovery	EPA 8260B	12/02/2000
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	12/02/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B19-5.0

Matrix : Soil

Lab Number : 18436-07

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/01/2000
Tert-Butanol	0.0059	0.0050	mg/Kg	EPA 8260B	12/01/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/01/2000
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	12/01/2000
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	12/01/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B19-7.0

Matrix : Soil

Lab Number : 18436-08

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.020	0.0050	mg/Kg	EPA 8260B	12/06/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Ethylbenzene	0.025	0.0050	mg/Kg	EPA 8260B	12/06/2000
Total Xylenes	0.023	0.0050	mg/Kg	EPA 8260B	12/06/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/06/2000
Tert-Butanol	< 0.020	0.020	mg/Kg	EPA 8260B	12/06/2000
TPH as Gasoline	2.4	1.0	mg/Kg	EPA 8260B	12/06/2000
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/06/2000
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	12/06/2000

Approved By:  Joel Kiff



Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER KING JR. WAY, OAKLAND, CA

Project Number : 242-0781

Sample : B19-GW

Matrix : Water

Lab Number : 18436-09

Sample Date : 11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4400	10	ug/L	EPA 8260B	12/04/2000
Toluene	740	10	ug/L	EPA 8260B	12/04/2000
Ethylbenzene	2200	10	ug/L	EPA 8260B	12/04/2000
Total Xylenes	7300	10	ug/L	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	16	10	ug/L	EPA 8260B	12/04/2000
Diisopropyl ether (DIPE)	190	10	ug/L	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 10	10	ug/L	EPA 8260B	12/04/2000
Tert-Butanol	240	100	ug/L	EPA 8260B	12/04/2000
TPH as Gasoline	58000	1000	ug/L	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff

Report Number : 18436

Date : 12/08/2000

Project Name : **2703 MARTIN LUTHER**

Project Number : **242-0781**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/2000
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/2000
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	12/03/2000
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/03/2000

Approved By:  Joel Kiff

Report Number : 18436

Date : 12/08/2000

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2703 MARTIN LUTHER

Project Number : 242-0781

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
Spike Recovery Data														
Benzene	18436-05	<0.0050	0.0454	0.0490	0.0352	0.0394	mg/Kg	EPA 8260B	12/04/2007	77.4	80.3	3.75	70-130	25
Toluene	18436-05	<0.0050	0.0454	0.0490	0.0360	0.0398	mg/Kg	EPA 8260B	12/04/2007	79.3	81.2	2.44	70-130	25
Tert-Butanol	18436-05	<0.0050	0.0454	0.0490	0.0441	0.0473	mg/Kg	EPA 8260B	12/04/2007	96.9	96.5	0.455	70-130	25
Methyl-t-Butyl Ether	18436-05	<0.0050	0.0454	0.0490	0.0346	0.0379	mg/Kg	EPA 8260B	12/04/2007	76.1	77.4	1.64	70-130	25

Approved By: Joel Kiff



KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 18436

Date : 12/08/2000

QC Report : Laboratory Control Sample (LCS)

Project Name : **2703 MARTIN LUTHER**

Project Number : **242-0781**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0356	mg/Kg	EPA 8260B	12/06/200	83.3	70-130
Toluene	0.0356	mg/Kg	EPA 8260B	12/06/200	81.6	70-130
Tert-Butanol	0.178	mg/Kg	EPA 8260B	12/06/200	80.2	70-130
Methyl-t-Butyl Ether	0.0356	mg/Kg	EPA 8260B	12/06/200	98.8	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff

Report Number : 18436

Date : 12/08/2000

Project Name : 2703 MARTIN LUTHER

Project Number : 242-0781

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/04/2000
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/04/2000
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/04/2000
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	12/04/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/04/2000

Approved By:  Joel Kiff

Report Number : 18436

Date : 12/08/2000

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **2703 MARTIN LUTHER**

Project Number : **242-0781**

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
Spike Recovery Data														
Benzene	18451-04	<0.50	49.8	24.8	43.4	21.8	ug/L	EPA 8260B	12/02/2008	7.1	88.0	0.959	70-130	25
Toluene	18451-04	<0.50	49.8	24.8	45.4	22.7	ug/L	EPA 8260B	12/02/2009	1.2	91.4	0.175	70-130	25
Tert-Butanol	18451-04	<5.0	49.8	24.8	55.8	27.8	ug/L	EPA 8260B	12/02/2001	112	112	0.0357	70-130	25
Methyl-t-Butyl Ether	18451-04	3.1	49.8	24.8	45.9	26.2	ug/L	EPA 8260B	12/02/2008	5.9	92.9	7.78	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 18436

Date : 12/08/2000

QC Report : Laboratory Control Sample (LCS)

Project Name : **2703 MARTIN LUTHER**

Project Number : **242-0781**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	12/02/200	83.8	70-130
Toluene	20.0	ug/L	EPA 8260B	12/02/200	87.2	70-130
Tert-Butanol	99.8	ug/L	EPA 8260B	12/02/200	95.1	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	12/02/200	96.1	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D
Davis, CA 95616

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

Equiva Project Manager to be Involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (SEE ONLY)

97093397

SAP or CRMT NUMBER (IF CRMT)

DATE: *November 21, 2000*

PAGE: 1 of 3

CONSULTANT COMPANY:
Cambria Environmental Technology, Inc.

ADDRESS:
1144 65th Street

CITY:
Oakland, CA 94608

TELEPHONE: **510-420-0700** FAX: **510-420-9170** E-MAIL:

SITE ADDRESS (Street and City):
2703 Martin Luther King Jr. Way, Oakland, CA

PROJECT CONTACT (Report to):
Troy Buggle

CONSULTANT PROJECT NO.:
242-0781

SAMPLER NAME(S) (Print):
Barbara Jakub

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: _____ TEMPERATURE ON RECEIPT

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	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-)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
MW-4-5.0	11/21/00	1045	soil	1	X		X														-01
MW-4-10.5	11/21/00	1048	↓	1	X		X														-02
MW-5-5.0	↓	1400	↓	1	X		X														-03
MW-5-10.0	↓	1415	↓	1	X		X														-04

Relinquished by: (Signature)
Barbara Jakub

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)
Michelle Wroblewski / Kiff Analytical

Date: _____ Time: _____

Date: _____ Time: _____

Date: *11/27/00* Time: *1620*

720 Olive Drive, Suite D
Davis, CA 95616

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

Equiva Project Manager to be Involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER(S) (IF ONLY):

97093397

SAP or CRMT NUMBER (IF CRMT):

DATE: November 22, 2001

PAGE: 2 of 3

CONSULTANT COMPANY:
Cambria Environmental Technology, Inc.
ADDRESS:
1144 65th Street
CITY:
Oakland, CA 94608
TELEPHONE: 510-420-0700 FAX: 510-420-9170 E-MAIL:

SITE ADDRESS (Street and City):
2703 Martin Luther King Jr. Way, Oakland CA
PROJECT CONTACT (Report to):
Troy Buggle
CONSULTANT PROJECT NO.: 242-0781
SAMPLER NAME(S) (Print):
Barbara Jakub

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: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	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-)
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												
X			X												

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

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME		
MW-3-5.0	11/22	1045	Soil	1
MW-3-10.5	11/22	1159		
B19-5.0		1320		
B19-7.0		1325	✓	
B19-6W		1405	Water	4
B18-5.0		1450	Soil	
B18-7.0		1455	✓	
B18-6W		1570	Water	4
B17-5.0		1545	Soil	
B17-7.0		1548	✓	

Relinquished by: (Signature) <i>Barbara Jakub</i>	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) <i>Michelle Woodard / KIFF Analytical</i>	Date: 11/27/01	Time: 1620

720 Olive Drive, Suite D
Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Peterson

INCIDENT NUMBER (S&E ONLY):

97093397

SAP or CRMT NUMBER (TS/CRMT):

DATE: *November 22, 2000*

PAGE: *3* of *3*

CONSULTANT COMPANY:
Cambria Environmental Technology, Inc.

ADDRESS:
1144 65th Street

CITY:
Oakland, CA 94608

TELEPHONE: **510-420-0700** FAX: **510-420-9170** E-MAIL:

SITE ADDRESS (Street and City):
2703 Martin Luther King Jr. Way, Oakland, CA

PROJECT CONTACT (Report to):
Troy Buggle

CONSULTANT PROJECT NO.:
242-0781

SAMPLER NAME(S) (Print):
Barbara Jakub

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 _____

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C

TPH - Purgeable (8015m)	
TPH - Extractable (8015m)	
BTEX / MTBE (8021B)	
BTEX / MTBE + Oxygenates (8260B)	X
VOCs Full List + Oxygenates (8260B)	
MTBE (8260B) Confirmation, See Note	
EPA 5035 Extraction for Volatiles	
VOCs Halogenated/Aromatic (8021B)	
Ethanol, Methanol (8015B)	
Metals (Specify)	
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 (48-	

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

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	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 (48-	FIELD NOTES:	
		DATE	TIME																				
	B17-GW	11/22	1600	Water	4				X														-15

Relinquished by: (Signature) <i>Barbara Jakub</i>	Received by: (Signature) _____	Date:	Time:
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date:	Time:
Relinquished by: (Signature) _____	Received by: (Signature) <i>Michelle Wolcott / Kiff Analytical</i>	Date: <i>11/27/00</i>	Time: <i>1620</i>

ATTACHMENT E

Soil Stockpile Laboratory Analytical Results



Report Number : 18435

Date : 12/06/2000

Troy Buggle
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 5 Soil Samples
Project Name : 2703 Martin Luther King Jr. Way, Oakland, CA
Project Number : 242-0781
P.O. Number : SAP# 129449

Dear Mr. Buggle,

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

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

Sincerely,



Joel Kiff



Report Number : 18435

Date : 12/06/2000

Project Name : 2703 Martin Luther King Jr. Way, Oakland, CA

Project Number : 242-0781

Sample : SP-1a

Matrix : Soil

Lab Number : 18435-01

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	92	20	mg/Kg	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	11/29/2000

Sample : SP-1b

Matrix : Soil

Lab Number : 18435-02

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	11/29/2000

Sample : SP-1c

Matrix : Soil

Lab Number : 18435-03

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	330	5.0	mg/Kg	EPA 8260B	11/30/2000
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2000

Approved By:  Joel Kiff



Report Number : 18435

Date : 12/06/2000

Project Name : 2703 Martin Luther King Jr. Way, Oakland, CA

Project Number : 242-0781

Sample : SP-1d

Matrix : Soil

Lab Number : 18435-04

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	36	1.0	mg/Kg	EPA 8260B	11/29/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/29/2000

Sample : SP-1a, 1b, 1c, 1d

Matrix : Soil

Lab Number : 18435-05

Sample Date :11/22/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.49	0.050	mg/Kg	EPA 8260B	12/03/2000
Toluene	2.0	0.050	mg/Kg	EPA 8260B	12/03/2000
Ethylbenzene	4.5	0.050	mg/Kg	EPA 8260B	12/03/2000
Total Xylenes	22	0.050	mg/Kg	EPA 8260B	12/03/2000
Methyl-t-butyl ether (MTBE)	0.090	0.050	mg/Kg	EPA 8260B	12/03/2000
Diisopropyl ether (DIPE)	< 0.050	0.050	mg/Kg	EPA 8260B	12/03/2000
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	mg/Kg	EPA 8260B	12/03/2000
Tert-amyl methyl ether (TAME)	< 0.050	0.050	mg/Kg	EPA 8260B	12/03/2000
Tert-Butanol	< 0.50	0.50	mg/Kg	EPA 8260B	12/03/2000
Toluene - d8 (Surr)	96.8		% Recovery	EPA 8260B	12/03/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/03/2000

Approved By:  Joel Kiff

Report Number : 18435

Date : 12/06/00

Project Name : **2703 Martin Luther King**

Project Number : **242-0781**

Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/29/00
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	11/29/00
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/29/00
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	11/29/00

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 2703 Martin Luther King

Project Number : 242-0781

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
Spike Recovery Data														
Benzene	18423-03	<0.0050	0.0454	0.0476	0.0382	0.0450	mg/Kg	EPA 8260B	11/29/00	84.3	94.5	11.4	70-130	25
Toluene	18423-03	<0.0050	0.0454	0.0476	0.0358	0.0418	mg/Kg	EPA 8260B	11/29/00	78.8	87.7	10.7	70-130	25
Tert-Butanol	18423-03	<0.0050	0.0454	0.0476	0.0503	0.0578	mg/Kg	EPA 8260B	11/29/00	111	121	9.06	70-130	25
Methyl-t-Butyl Ether	18423-03	0.0087	0.0454	0.0476	0.0497	0.0526	mg/Kg	EPA 8260B	11/29/00	90.3	92.3	2.18	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 18435

Date : 12/06/2000

QC Report : Laboratory Control Sample (LCS)

Project Name : **2703 Martin Luther King**

Project Number : **242-0781**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0377	mg/Kg	EPA 8260B	11/29/200	86.2	70-130
Toluene	0.0377	mg/Kg	EPA 8260B	11/29/200	77.2	70-130
Tert-Butanol	0.188	mg/Kg	EPA 8260B	11/29/200	94.1	70-130
Methyl-t-Butyl Ether	0.0377	mg/Kg	EPA 8260B	11/29/200	101	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: 
Joel Kiff



Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

December 13, 2000

Joel Kiff
Kiff Analytical
720 Olive Drive, Suite D
Davis, CA 95616
RE: Equiva 2703 Martin Luther King, Oakland, CA

Enclosed are the results of analyses for samples received by the laboratory on 11/29/00 10:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R. Hanson
Client Services Representative

CA ELAP Certificate Number 2374





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
12/13/00 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1a, 1b, 1c, 1d	S011424-01	Soil	11/22/00 00:00	11/29/00 10:50





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
12/13/00 14:49

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1a, 1b, 1c, 1d (S011424-01) Soil Sampled: 11/22/00 00:00 Received: 11/29/00 10:50									
Lead	18.2	10.0	mg/kg	4	0120120	12/11/00	12/13/00	EPA 6010A	





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
12/13/00 14:49

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
Batch 0120120 - EPA 3050B										
Blank (0120120-BLK1)										
					Prepared: 12/11/00 Analyzed: 12/13/00					
Lead	ND	2.50	mg/kg							
LCS (0120120-BS1)										
					Prepared: 12/11/00 Analyzed: 12/13/00					
Lead	49.8	2.50	mg/kg	50.0		99.6	80-120			
Matrix Spike (0120120-MS1)										
					Source: S011424-01		Prepared: 12/11/00 Analyzed: 12/13/00			
Lead	62.3	10.0	mg/kg	50.0	18.2	88.2	80-120			
Matrix Spike Dup (0120120-MSD1)										
					Source: S011424-01		Prepared: 12/11/00 Analyzed: 12/13/00			
Lead	106	10.0	mg/kg	50.0	18.2	176	80-120	51.9	20	Q-02





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
12/13/00 14:49

Notes and Definitions

- Q-02 The RPD and/or spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





720 Olive Drive, Suite D
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. _____

Page 1 of 1

Project Manager: Joel Kiff
 Company/Address: Kiff Analytical, LLC
 Project Number: 242-0781 P.O. No.: 18435
 Project Name/Location: 2703 Martin Luther King Jr. Way

Phone No.: _____
 FAX No.: _____
 Email Address: _____
 .pdf .xls .doc other
 Sampler Signature: _____

Chain-of-Custody Record and Analysis Request

Analysis Request

For Lab Use Only	
12 hr/24 hr/48 hr/72 hr/1 wk	TAT
12 hr = Results by 9 a.m. of the next bus. day	
24 hr = Results by 5 p.m. of the next bus. day	
48 hr = Results by 5 p.m. of the 2nd bus. day	
72 hr = Results by 5 p.m. of the 3rd bus. day	
1 wk = Results by 5 p.m. of the 5th bus. day	

Sample Designation	Sampling		Container (Type/Amount)				Method Preserved				Matrix
	Date	Time	40 ml VOA	SLEEVE			HCl	HNO ₃	ICE	NONE	
SP-1a, 1b, 1c, 1d	11/22/00										WATER (SOIL)

BTEX (8021B)	
BTEX/TPH Gas/MTBE (8021B/M8015)	
TPH as Diesel (M8015)	
TPH as Motor Oil (M8015)	
TPH Gas/BTEX/MTBE (8260B)	
5 Oxygenates/TPH Gas/BTEX (8260B)	
7 Oxygenates/TPH Gas/BTEX (8260B)	
5 Oxygenates (8260B)	
7 Oxygenates (8260B)	
Lead Scav. (1.2 DCA & 1.2 EDB - 8260B)	
EPA 8260B (Full List)	
Volatile Halocarbons (EPA 8260B)	
Lead (M421/239.2) TOTAL (X) W.E.T. (X)	X

SOIL 424-01

Relinquished by: <u>John Cutler</u>	Date: <u>11-29-00</u>	Time: <u>1050</u>	Received by: <u>[Signature]</u>
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

Remarks: See attached page 4B-28. Test the * items as instructed.

Bill to: Equiva

720 Olive Drive, Suite D
 Davis, CA 95616

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

Equiva Project Manager to be involved:

Equiva
 Other

Cade Davis

DATE: November 22, 2011

PAGE: 1 of 1

129449

CLIENT COMPANY:
 Aris Environmental Technology, Inc.
 465th Street
 Davis, CA 94808
 PHONE: 510-420-0700 FAX: 510-420-0170

SITE ADDRESS (Street and City):
 2703 Martin Luther King Jr. Way, Oakland, CA
 PROJECT CONTRACT (Report to):
 Troy Buggle
 SUPERVISOR (Rpt to):
 Barbara Jakub
 CONSULTANT PROJECT NO.:
 242-0781

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - RPDQA REPORT FORMAT USE AGENCY
 AMS MTR CONFIRMATION: HIGHEST HIGHEST per BORING ALL
 SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C

REQUESTED ANALYSIS

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

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONTS.	TPH - Purgeable (E010a)	TPH - Extractable (E010c)	BTEX / MTBE (M011B)	BTEX / MTBE - Oxygenates (E001B)	VOCs Full List + Oxygenates (M002C)	MTBE (M002B) Confirmation, See Note	EPA 8005 Extraction for Volatiles	VOCs Halogenated/Aromatics (M001B)	Ethanol, Methanol (E015B)	Metals (Specify) <i>ILL Lab</i>	TPPH (E15.1)	Vapor VOCs BTEX / MTBE (T0-16)	Vapor VOCs Full List (T0-15)	Vapor TPH (ASTM 6410a)	Vapor Packed Gases (ASTM D1644)	Test for Disposal (49-28)	
	DATE	TIME																			
SP-1a	11/22				X			X						X					X		-01
SP-1b					X			X						X					X		-02
SP-1c					X			X						X					X		-03
SP-1d					X			X						X					X		-04

-01
 -02
 -03
 -04 } -05

Relinquished by: (Signature) *Barbara Jakub* Date: 11/22/11 Time: 1620
 Received by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) *Whitney Woodworth / Kiff Analytical* Date: 11/27/11 Time: 1620



Sequoia Analytical

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

January 09 , 2001

Joel Kiff
Kiff Analytical
720 Olive Drive, Suite D
Davis, CA 95616
RE: Equiva 2703 Martin Luther King, Oakland, CA / S012199

Enclosed are the results of analyses for samples received by the laboratory on 12/14/00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra R Hanson

Sandra R. Hanson
Client Services Representative

CA ELAP Certificate Number 1624





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
01/09/01 11:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1a,1b,1c,1d	S012199-01	Soil	11/22/00 00:00	12/14/00 15:43





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
01/09/01 11:43

**Organic Lead by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1a,1b,1c,1d (S012199-01) Soil Sampled: 11/22/00 00:00 Received: 12/14/00 15:43									
Organic Lead	ND	1.0	mg/kg	5	0L20015	12/20/00	12/22/00	DHS LUFT	O-04





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
01/09/01 11:43

**Organic Lead by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L20015 - LUFT-DHS										
Blank (0L20015-BLK1)										
Organic Lead	ND	1.0	mg/kg							Prepared: 12/20/00 Analyzed: 12/22/00
LCS (0L20015-BS1)										
Organic Lead	11.0	1.0	mg/kg	20.0		55.0	40-120			Prepared: 12/20/00 Analyzed: 12/22/00
LCS Dup (0L20015-BSD1)										
Organic Lead	11.0	1.0	mg/kg	20.0		55.0	40-120	0	20	Prepared: 12/20/00 Analyzed: 12/22/00
Matrix Spike (0L20015-MS1)										
Organic Lead	14.3	1.0	mg/kg	20.0	ND	71.5	0-75			Source: S012199-01 Prepared: 12/20/00 Analyzed: 12/22/00
Matrix Spike Dup (0L20015-MSD1)										
Organic Lead	13.2	1.0	mg/kg	20.0	ND	66.0	0-75	8.00	25	Source: S012199-01 Prepared: 12/20/00 Analyzed: 12/22/00





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA
Project Number: 242-0781
Project Manager: Joel Kiff

Reported:
01/09/01 11:43

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



SEQUOIA ANALYTICAL RELOG SHEET

CLIENT: Kelly Analytical RELOG DATE: 12/14/00
 PROJECT ID: Edwin, 2703 Martin DATE DUE: ~~12/21/00~~
 REPORT TO: Jed Kill Luther King
 DATE RECD: 11/29/00 T.A.T.: 5 day 7 day

PREVIOUSLY LOGGED SAMPLES

TAT Change status to: _____ Change status as of: _____ Day: _____ Time: _____

CHANGE ANALYSES: + Add Analyses - Cancel Analyses

Sequoia Sample #	Client Sample ID	Matrix	Date Sampled	Analyses	Previous Sequoia #
<u>0999-a</u>	<u>SP-b,b,c,d</u>	<u>S</u>	<u>12/13/00 11/22/00</u>	<u>Organic Pb</u>	<u>501142 ✓</u>

REMARKS

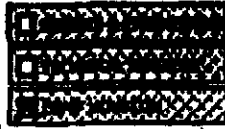
Authorization (Person/Date/Time): Nadia 12/14/00 c 1543 / Jed 12/15/00 c 0935
 Project Manager: Sarah Hansen

720 Olive Drive, Suite D

Davis, CA 95616

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

Equiva Project Manager to be involved:



Code Davis

DATE: November 27, 2000

PAGE: 1 of 1

129449

CLIENT COMPANY:
 Davis Environmental Technology, Inc.
 165th Street
 Davis, CA 95608
 PHONE: 510-420-8700 FAX: 510-420-8770

ONE ADDRESS (Street and City):
 2703 Martin Luther King Jr. Way, Oakland, CA
 PROJECT ORIGINATOR:
 Troy Bungle
 242-0781
 CUSTOMER PROJECT NO.:
 Barbara Jakob

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

LA - KQOCS REPORT FORMAT USE AGENCY

MS MTE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT _____

REQUESTED ANALYSIS

TPH - Purgeable (ASTM)	TPH - Extractable (ASTM)	BTEX / MTBE (ASTM)	BTEX / MTBE - Oxygenates (ASTM)	VOCs Full List - Oxygenates (ASTM)	MTBE (ASTM) Confirmation, See Note	EPA 8205 Estimation for Volatiles	VOCs Halogenated/Aromatics (ASTM)	Ethanol, Methylol (ASTM)	Metals (Specify) <i>THL Lead</i>	TRPH (EPA 816.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Pesticides (ASTM D1546)	Test for Disposal (48-22)
X			X						X					X	
X			X						X					X	
X			X						X					X	
X			X						X					X	

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

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME		
SP-1a	11/27			
SP-1b	↓			
SP-1c	↓			
SP-1d	↓			

-01
 -02
 -03
 -04
 } -05

Requested by (Signature): *[Signature]* Received by (Signature): *[Signature]* Date: _____ Time: _____

Requested by (Signature): _____ Received by (Signature): _____ Date: _____ Time: _____

Requested by (Signature): _____ Received by (Signature): *White Woodworth / Kipp Analytical* Date: 11/27/00 Time: 1620

720 Olive Drive, Suite D
 Davis, CA 95616

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

Equiva Project Manager to be Involved:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

Cade Davis

INCIDENT NUMBER (S&E ONLY)

SAP OF CRMT NUMBER (TS/CRMT)

129449

DATE: November 27, 2004

PAGE: 1 of 1

CONSULTANT COMPANY:
Cambria Environmental Technology, Inc.
 ADDRESS:
1144 65th Street
 CITY:
Oakland, CA 94608
 TELEPHONE: **510-420-0700** FAX: **510-420-9170** E-MAIL:
 TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - RWQCB REPORT FORMAT UST AGENCY:

SITE ADDRESS (Street and City):
2703 Martin Luther King Jr. Way, Oakland, CA
 PROJECT CONTACT (Report to): **Troy Buggle** CONSULTANT PROJECT NO.: **242-0781**
 SAMPLER NAME(S) (Pin): **Barbara Jakub**

GCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C° _____

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify) <u>ML Lead</u>	TRPH (418.1)	Vapor VOCs BTEX / MTBE (70-15)	Vapor VOCs Full List (70-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-28)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																				
	SP-1a	11/22				X			X						X						X	-01 -02 -03 -04 } -05	
	SP-1b	↓				X			X						X						X		
	SP-1c	↓				X			X						X						X		
	SP-1d	↓				X			X						X						X		

Relinquished by: (Signature) Barbara Jakub Date: _____ Time: _____
 Received by: (Signature) _____ Date: _____ Time: _____
 Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received by: (Signature) Michelle Woodworth / KIFF Analytical Date: 11/27/04 Time: 1620

18435

MAY 21 2001

ISSUED DATE: 05/23/97
CANCELS ISSUE: 03/05/97
ISSUED BY: RLG

MATERIAL: MINIMUM SOIL ANALYSIS FOR UST SOIL WITH GASOLINE OR DIESEL CONTAMINATION

USE FOR ARIZONA , CALIFORNIA AND NEVADA WASTE ONLY!!!

NOTE: ANALYSES ARE BASED ON CHARACTERIZATION MINIMUM. YOU MUST BE SURE THAT THE FACILITY WILL TAKE THE FOLLOWING AS ACCEPTANCE. FURTHER ANALYSIS MAY BE REQUIRED FOR CHARACTERIZATION UPON REVIEW BY THE WASTE TEAM MEMBER OR TO MEET DISPOSAL SITE REQUIREMENTS. IF THE MATERIAL IS RETURNED TO CONSULTANT, COPIES OF ALL TRANSPORTATION DOCUMENTS MUST BE SENT TO THE WASTE DISPOSAL COORDINATOR FOR RECORDING WHEN PROJECT IS COMPLETE.

MINIMUM REQUIRED TESTING

Note: If material is to be sent to a BFI facility EPA METHOD 8010 must be run IN ADDITION to the following analysis prior to requesting profile approval:

**TPH = TOTAL PETROLEUM HYDROCARBONS, DHS GC-FID MOD 8015
(GASOLINE) OR DIESEL AS REQUIRED.**

BTXE = EPA 8020 + MTBE

CAM METALS = TTLC LEAD, STLC LEAD IF TTLC => 50 MG/KG AND/OR ORGANIC LEAD IF TTLC => 13 MG/KG

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES WITH GREATER THAN 5000 PPM TPH. COMPOSITE A MAXIMUM OF 4 SAMPLES.

AQUATIC BIOASSAY (FISH TOX) = PART 800 OF "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)"

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

- 8015/8020 TO BE BILLED AS "COMBO" WITHOUT EXCEPTION
- TPH REQUIRED FOR ALL SAMPLES.
- ALL OTHER TESTS REQUIRED TO BE RUN ON COMPOSITE(S). MAXIMUM 4 SAMPLES PER COMPOSITE.
- STLC REQUIRED FOR METALS WITH TTLC VALUE 10 X STLC MAXIMUM.
- ORGANIC ANALYSIS REQUIRED FOR TTLC LEAD OF 13 MG/KG OR GREATER.
- LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS.
- MAIL OR FAX ALL ANALYSIS TO PERSON REQUESTING ANALYSIS.

**PROCEDURE ORIGINAL DATE: 07/10/90
PROCEDURE REVISED DATE: 03/05/97**