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

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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 27<sup>th</sup> 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 Enviros' May 10, 1996 correspondence.

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1996 Subsurface Investigation: In July 1996, Enviros 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, Enviros 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 27<sup>th</sup> Street @ West) approximately 450 feet to the west, a former station (26<sup>th</sup> Street and MLK Jr. Way) approximately 300 feet to the south, and a former Mobil station (554 27<sup>th</sup> 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.



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 JakubProject GeologistCambriaBob DeasonDrillerGregg 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 (μg/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

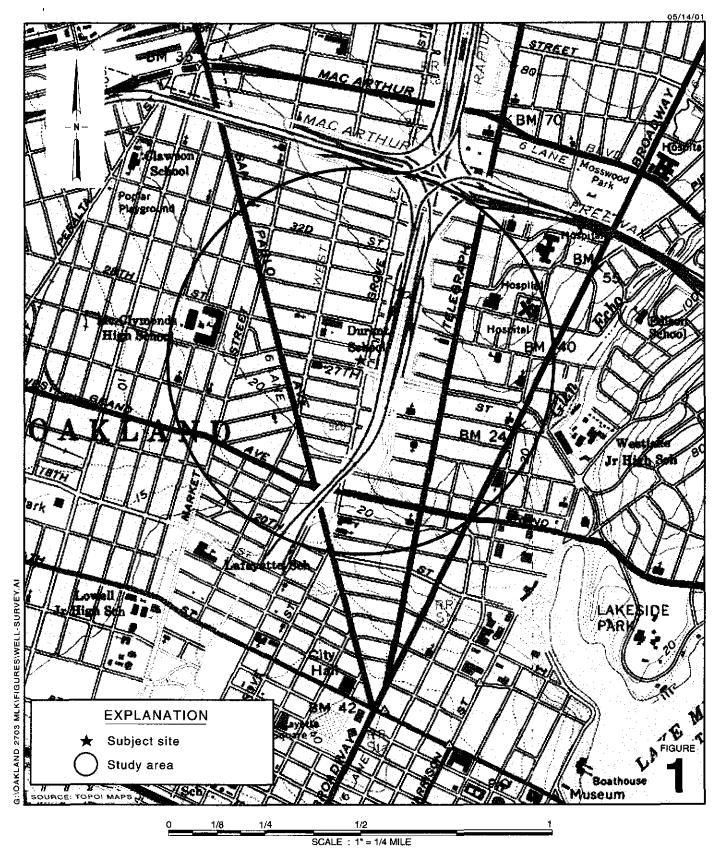
D - Laboratory Analytical Results for Soil and Groundwater Samples

E - Soil Stockpile Laboratory Analytical Results

Karen Petryna, Equiva Services LLC, P.O. Box 7689, Burbank, California 91510-7869 cc:

Rodney and Janet Kwan, 1834 Alameda Avenue, Alameda, California, 94501

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Former Shell Service Station

2703 Martin Luther King Jr. Way Oakland, California Incident #97093397



Area Well Survey

CAMBRIA

(1/2 - Mile Radius)

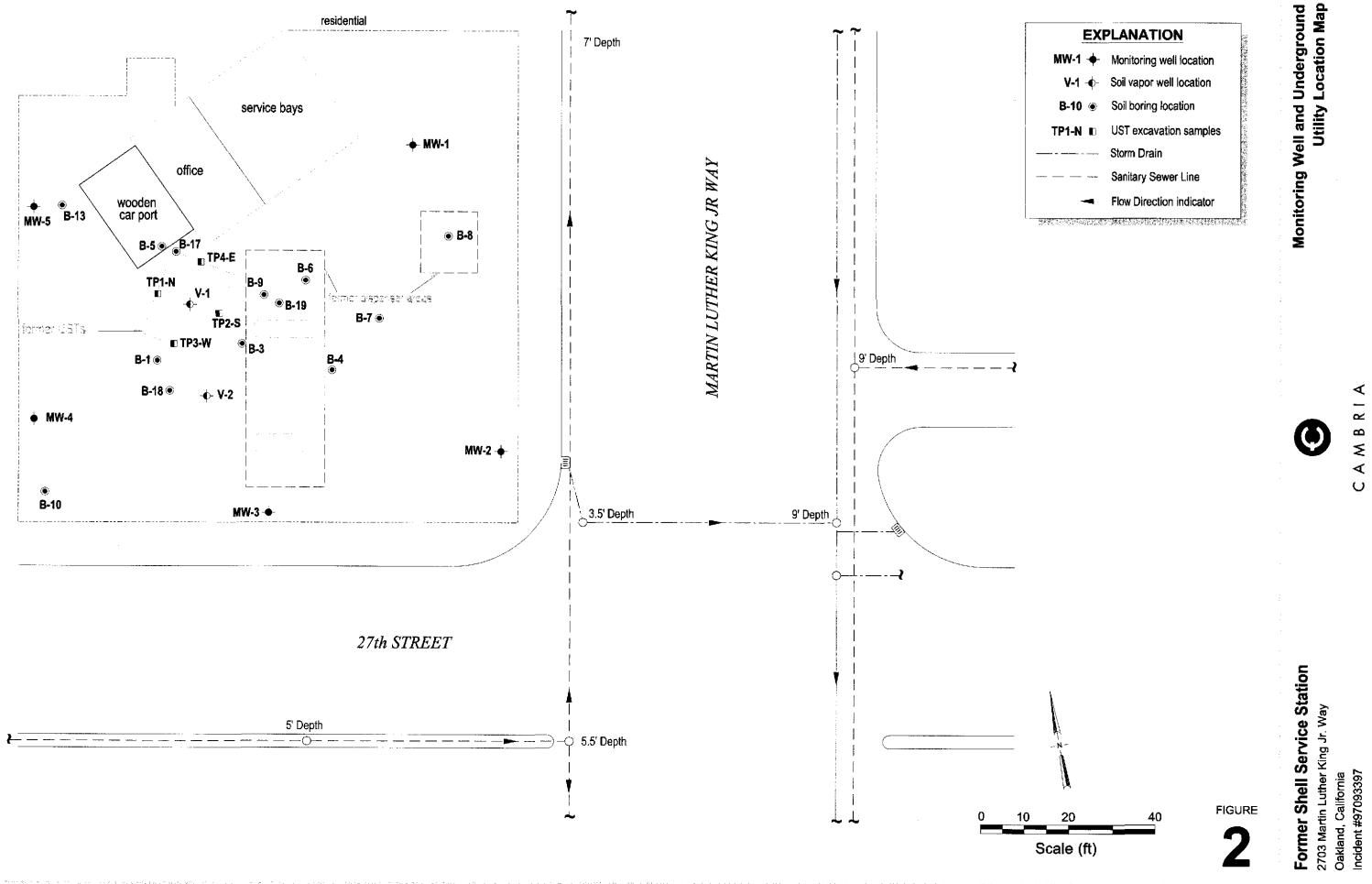


Table 1. Soil Analytical Data - Former Shell Service Station, Incident # 97093397, 2703 Martin Luther King, Jr., Blvd., Oakland, California

Sample	Depth	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
<u> D</u>	(ft)	Sampled	◆	Concer	trations report	ed in milligrams pe	er 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 Concentrations re	Ethylbenzene eported in micrograms p	Xylenes er kilogram (µg/kg or	MTBE ppm)	TBA
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

#### 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.

#### 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.

#### **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

299 EIMMUNA ST. Hayward CA 94544

THOME (510) 470-5504

FAX (510) 182-1939

#### DRILLING PERMIT APPLICATION

for applicant to complete	FOR OFFICE USE
LOCATION OF PROJECT 2703 Martin When Kry	PERMIT NUMBER
Cakland, PA	WELL NUMBÉR
	NO.
	termit conditions
<del>-</del>	Circled Permit Requirements Apply
CLIENT	(A) CENERAL
Name Equita Services CCC	A permit application should be submitted so us to
Address PO Box 1849 Phone	wrive at the ACPWA office five days prior to
City but bank, CA 91510 - 2ip	proposed starting date.  2. Spenit to ACPWA within 60 days after completion of
APPLICANT	permitted work the original Department of Water
Name Cambric Emissionental - Iron Buggle	Resources Water Well Drillers Report or equivalent for
Fax 510 410 9178	well projects, or drilling logs and location sketch for
Address 1144 le 125 St. Guide B Phone 510 420 3333 City Oakland, CA Zip 9460 B	3. Parmit is void if project not begun within 90 days of
City Typicated CR	- spproval dale.
TYPE OF PROJECT	e. Water Supply wells
Well Construction Geotechnical Investigation	4. Minimum surface scal thickness is two Inches of
Cathodic Protection ' U General O  Water Supply U Contamination II	cement grant placed by tremle.  2. Minimum seal depth is 50 feet for municipal and
Monitoring A Well Destruction U	industrial wells of 20 feet for domestic and irrigation
Soil borings and 3 Monitoring wells	wells unless a lesser depth is specially approved.
Proposed water supply well use	C. GROUNDWATER MONITORING WELLS
New Domestic C Replacement Domestic C	Including Piezometers
Municipal II Irrigation D total O Other: 0	. Minimum surface seal thickness is two inches of coment grout placed by tremie.
destilate of page	2. Minimum seal depth for monitoring wells it the
DRILLING METHOD:	meximum-depth practicable or 20 feet.
Mud Rolory D Air Rosary D Auger	d. Geotechnical
Cabic 0 Other	Excitill bere hole with compacted cuttings or heavy
DRILLER'S LICENSE NO. C57 485-165 Grega Drill	bentonite and upper two feet with compacted material.  In areas of known or suspensed contamination, tramied
3	coment grout shall be used in place of compacted auttings.
WELL PROJECTS	CATHODIC
Drill Hole Distractor Win. Maximum Casing Distractor 4 in. Depth 20 ft.	Fill hole above anodo sanc with concrete placed by tremie.  F. WELL DESTRUCTION
Surface Seal Depth = 65 n. Number Will-11	See susched.
	G. SPECIAL CONDITIONS
GEOTECHNICAL PROJECTS Number of Borings Maximum	
Hole Diameter in. Depth fr	1-20W
Whiles	·
ESTIMATED STARTING DATE //74/00 ESTIMATED COMPLETION DATE //72/00	3 27 17 21 1
THE COMMENTER DATE	APPROVED DATEDATE
After the control of	/ I/ I <sup>V</sup> · · ·
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 71-68.	Post-It Fax Note 1671 Date III II In Con Cont.
Comment CASIIG Additions age to an expense	
APPLICANT'S -1. 1 A A A WILL	To James You From TROY BUGGLE
SIGNATURE SIGNATURE DATE 1/16/00	CarDept Cambria
	Priorie # 670 (e (e 33 Priorie # 510 420 3333
1	Fax + 782 1939 Fax + 510420 9170
	<u>- , , , , , , , , , , , , , , , , , , ,</u>

NOV-17-2000 11:17

CAMBRIA

510 420 9170 P.01/02



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# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
349 EMPHURA G. HRUWARD, CA. (510) (473 - 55594 FAX (510) 782-1939

DRILLING PERI	MIT APPLICATION .
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2703 Martin Lither King	PERMIT NUMBER WOO-842 WELL NUMBER
	APN
	PERMIT CONDITIONS Circled Permit Requirements Apply
CLIENT ESCUIDA SCHUICES LLC	GENERAL  A permit application should be submitted so as to
Address Co Box TALA Phone	Jurive at the ACPWA office five days prior to
Clry purbanc ch 91510 - 2ip	proposed starting date.
7669	2. Submit to ACPWA within 60 days after completion of
APPLICANT ,	permitted work the original Department of Water
Name Cambric Envisonmental - Troy Briggle	Resources Water Well Drillers Report or equivalent for
Fax 810 420 9178	well projects, or drilling logs and location sketch for
Address 1144 1275 St. Carte B Phone 510 410 3333	geotechnical projects.
Cly Oakland, CA Zip 94608	(1) Formit is void if project not begun within 90 days of approval date.
TYPE OF PROJECT	B. WATER SUPPLY WELLS
Well Construction Gentechnical Investigation	i. Minimum surface real thickness is two inches of
Cathodic Protection ' General D	coment grout placed by tremic.
Water Supply () Contamination (1	2. Minimum seal depth is 50 feet for municipal and
Monitoring A Well Destruction U	industrial wells of 20 feet for domestic and irrigation
Soil bornings and 3 Montoning wells	wells unless a lesser depth is specially approved.
proposed water supply well use 0	C.GROUNDWATER MONITORING WELLS
New Domestic O Replacement Domestic O	INCLUDING PIEZOMETERS
Municipal U Irrigation 🖰	Minimum surface seel thickness is two inches of
Industrial A Other O	convent grows placed by tremie.
•	Minimum scal depth for monitoring wells is the
DRILLING METHOD:	maximum depth practicable or 20 feet.
Mud Rotary O Air Rosary O Auger	D. GEOTECHNICAL
Cafric O Other	Backfill bare hole with compacted cultings or heavy
DIVILLER'S LICENSE NO. C57 485-165 Gregg Dr	bentonite and upper two feet with compacted material.  In areas of known or suspected contamination, tramind coment grout shall be used in place of compacted cultifier.
WELL PROJECTS	E. CATHODIC
Drill Hole Diameter / In. Maximum	Fill hole above anode zone with concrete placed by tremie.
Casing Diameter 4 in. Depth 20 st., Surface Scal Depth 3 5 0 Number MW-4	F. WELL DESTRUCTION
Surface Seal Depth - 45 0. Namber MW - 4	See sinched.
CEOTECTINICAL PROJECTS  Number of Borings Maximum	G. SPECIAL CONDITIONS
Hole Dismeter in. Depth ft.	$\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$
ESTIMATED STARTING DATE 11/21/00 ESTIMATED COMPLETION DATE 11/21/00	APPROVED AM DATE
The second section will be a second s	APPROVED DATE
Chamburgan to according the att — author— and a second	
I hereby agree to comply with all requirements of this permit and Alameda County Ordinates No. 73-68,	Daniel Star Carry Man.
	Post-It Fax Note 7671 Date II II /00 posses 2
	TO James YOU From TROY BUGGLE
APPLICANT'S LIVE A. BUE DE TO 11/11/00	Ca/Dept. Co.

6706633

510 420 3333 OFIP OSHOIZ NOV-17-2000 11:17

CAMBRIA

510 420 9170 P.01/02



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 EIMMUNG ST. HEMWAND, CA 94544
FRONE (310) 570-1939

DRILLING PER	MIT APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2703 Martin Lither Kry	PERMIT NUMBER <u>WOO - 843</u> Well NUMBER APN
	TERMIT CONDITIONS Circled Permit Requirements Apply
CLIENT Name Equita Service (LC Address CO Bek 7849 Phone Clry Pur Dende, CA 91510 - Zip TOG9  APPLICANT Name Cambric Environmental - Tray Buggle Address 1144 lettes Cuite a Phone 510 410 9170  Address 1144 lettes Cuite a Phone 510 410 33331 City Oakland, CA Zip 9460 A  TYPE OF PROJECT Well Construction General O Water Supply U Contamination a Water Supply U Contamination a Manitoring A Well Destruction U Soal Dovens And 3 Monthams Well's PROPOSED WATER SUPPLY WELL USE New Dornestic D Replacement Dogicatic	GENERAL  A permit application should be submitted so at to survive at the ACPWA offlee five days prior to proposed starting date.  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 defling logs and location sketch for gentechnical projects.  Permitt is void if project not begun within 90 days of approval date.  B. WATER SUPPLY WELLS  I. Minimum surface soal thickness is two inches of coment grout placed by tremite.  2. Minimum seal depth is 50 feet for monicipal and industrial walls or 20 feet for domestic and irrigation wells unless a leaser depth is specially approved.  C. GROUNDWATER MONITORING WELLS  INCLUDING FIEZOMETERS
Municipal II Irrigation II Industrial II Other II OTHER III OTHER	1. Minimum surface seal thickness is two inches of cornent group placed by tremio.  2. Hinimum seld depth for munitaring wells is the maximum depth practicable or 20 feet.  D. GEOTECHNICAL  Backfill bare hole with campacted culturys or heavy
OFFILER'S LICENSE NO. CST 485-165 Gregg Dr WELL PROJECTS Drill Hole Diameter 10 In. Maximum Casing Diameter 4 In. Depth 20 n. Surface Seal Depth 45 0. Number 100-15	In areas of known or suspected contemination, tramined commination tramined comminations tramined comminations tramined comminations tramined comminations. The commination of the content
CECTE CANICAL PROJECTS  Number of Borings	APPROVED DATE
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-58.	Post-It Fax Note 7671 Date II/It /OB PROSE 2
APPLICANT'S LIVE BUYL DATE 11/11/00	Co.Dept. Co. Cambria  Prome # 670 (663)  Prome # 510 420 3333
7	Fax 782 1939 Fax 510 420 3333

OFIP OSHOIZ

\* NOU-17-2000 11:17

CAMBRIA

510 420 9170 P.01/02



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
349 EIM HULST ST., HUNWARD CA 94544.
FRONE (510) 678 5555 FRAX (510) 1782 - 1939

DRILLING PERM	MIT APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2703 Martin Lither Kny	PERMIT NUMBER <u>NOO-844</u> WELL NUMBER
	APN
	PERMIT CONDITIONS Circled Permit Requirements Apply
Numa Equipa Services LLC	GENERAL  1. A permit application should be submitted so at to
Address Po Box FALA Phone	wrive at the ACPWA office five days print to
Cly Burbank, CA 91510 - 2ip	proposed starting date.  2. Submit to ACPWA within 60 days after completion of
APPLICANT	permitted work the original Department of Water
Name Cambria Environmental - Tray Buggle	Resources Water Well Drillers Report or equivalent for
Address 1144 letter St. Can't B Phone 510 410 3333	well projects, or dilling logs and location sketch for geolectholest projects.
City Oakland , CH Zip 94608	1. Fermit is void if project not began within 90 days of
TYPE OF PROJECT	approval date.  B. WATER SUPPLY WELLS
Well Construction Gentlechalcel Investigation	I. Minimum surface scal thickness is two inches of
Cethodic Protection : II General II Water Supply II Contamination II	coment grout placed by tremie.  2. Minimum seal depth is 50 feet for municipal and
Monitoring _ A Well Destruction L	industrial wells or 20 feet for destruction and irrigation
3 Soil borings and 3 Monitoring wells	wells unless a lesser depth is specially approved-
PROPOSED WATER SUPPLY WELL USE  New Domestic D Replacement Domestic D	C. Groundwater monitoring wells including piezometers
Municipal II Irrigation 0	1. Minimum surface seal thickness is two inches of
Industrial O OtherO	scorent grout placed by tremie.
DRILLING METHOD:	<ol> <li>Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.</li> </ol>
Mud Rotory G Air Rotary G Auger	D. DEOTECHNICAL
Cable Other	Buckfill base hale with compacted cultures or heavy
DILLER'S LICENSE NO. C57 485-165 GROGE DO	bentonise and upper two feet with compacted material. In areas of known or suspected contemination, tramied
WELL PROJECTS	coment grout shall be used in place of compacted cultings.
Drill Hole Dismoterin. Max(mum	E. CATHODIC  Fill hole above anode some with concrete placed by tremit.
Casing Diameterin. Depthin. Surface Scal Depthin. Namberin.	F. WELL DESTRUCTION
	See muched. G. SPECIAL CONDITIONS
CEOTECTINICAL PROJECTS  Number of Berings 3 Maximum	,
Hote Diameter 67 in. Depth 20 ft.	1 10 - 1000
ESTIMATED STARTING DATE 1/21/00	11-10-0
ESTIMATED COMPLETION DATE 1/72/00	APPROVED DATE
	All
I hereby agree to comply with all requirements of this permit and	
Alameda County Ordinance No. 73-68.	Post-It Fax Nois (671 Dale 11 14 /06 pages 2
	To James You Prom TROY BUGGLE
SIGNATURE JULY BUY DATH 11/11/00	Co. Dept Co. Cambria
Jan	Phone # 6-10 (633 Phone # 510 420 3333
•	Fax 782 1939 Fax 510420 9170

DUPLICATE		******** /	STATE OF			- 11 .	E ONLY —	DO NOT FILE IN			
Driller's Copy			JUMPI Refer to Ins		ON REPOR	I I ST	FATE WELL NO	D/STATION NO.			
Page of Owner's Well No.	MW-3	·	•		126						
Date Work Segan	11/24/00	Ended \\\ / 2	12/00	100	1750	LATITUDE		LONGITUDE			
Local Permit Age	ency ALAMES	24 COUNTY	PUGL	16 10	rorts for	ــــــــــــــــــــــــــــــــــــــ					
Permit No.	160-841		Date 11/			/ L	APN/TRS/	OTHER			
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ORIENTATION (소)		HORIZONTAL A	NGLE	(SPECIFY)		A SERVICE					
DEPTH FROM	DRILLING METHOD	FL		<u> </u>	Mailing Address		7869				
SURFACE	Describe me	DESCRIPTION terial, grain size,	anlam ata	ı	CITY SULPAT	1 6		STATE ZIP			
Ft. to Ft.		ACHED 1			Address 270	WELL LO	CATION —	C 11 17.			
		-11, pri (** 1.)	<u> </u>		City OAK LA	VID	111111111111111111111111111111111111111	<u> </u>			
					County ALAMENA						
					APN Book Page Parcel						
					Township Bange Section						
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					LOC	CATION SKETCH -		DEG. MIN. SEC.  ACTIVITY (∠)			
ļ -				<del>.</del>		NORTH		NEW WELL			
<del>                                     </del>				<del></del>	SFE.	ATTACHEC	>	MODIFICATION/REPAIR Deepen			
<u> </u>	 				J	-		Other (Specify)			
1	I				SIT	E MAP		DESTROY (Describe			
1				-				Procedures and Materials Under "GEQLOGIC LOG")			
			·	•				PLANNED USES (∠) WATER SUPPLY Domestic Public			
	•				<del> </del>		-	Irrigation Industrial			
i					WEST		EAST	MONITORING			
<del></del>								TEST WELL CATHODIC PROTECTION			
1								HEAT EXCHANGE			
<u> </u>								DIRECT PUSH			
				······				VAPOR EXTRACTION			
	1							SPARGING			
1				-	Illustrate or Describe	SOUTH	ds, Buildings,	REMEDIATION			
					Fences, Rivers, etc. an necessary, PLEASE B	Distance of Well from Road d attach a map. Use additi E ACCURATE & COMP.	onal paper if <b>LETE</b> .	OTHER (SPECIFY)			
1	1		<del>.</del>			LEVEL & YIELD		ETED WELL			
	r <del></del>					ATER 15 (Ft.) BE					
<u> </u>						<u>NA</u> (Ft.) & DATE					
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TOTAL DEPTH OF	BORING 20	(Feet)				(GPM) & 1					
l.	COMPLETED WELL .	_			4	(Hrs.) TOTAL DRAW sentative of a well's lon		· ·			
					<u> </u>		Ī				
DEPTH FROM SURFACE	BORE-		ASING (S)			DEPTH FROM SURFACE	ANN	TYPE			
PHOW SURPACE	HOLE TYPE (		INTERNAL	GAUGE	E SLOT SIZE	PHOW SONI ACE	CE- BEN-				
Ft. to Ft.	BLANK SCREEN PLANK CON-	GRADE	DIAMETER (Inches)	OR WAI		Ft. to FL	MENT TONITI	(TYPE/SIZE)			
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ATTAC!	HMENTS (∠)	the unde	ersigned ce	rtify that t		TION STATEMENT and accurate to the	L 4 _ 4 _ 4 _ 4 _ 4 _ 4	nowledge and belief.			
Geologic	_		c I An	12 (1775	MAMON	A ENVIRON	MEITTA	TECHNALACY			
	nstruction Diagram	NAME D (PERS	ON, FIRM, OR C	ORPORATION	(TYPED OR PRINTED)	- V//2 8 AV	Comparison	- 1-01/100			
1	sical Log(s) er Chemical Analyses	1144	65+6	St		CAKLAI	VO	(A 74608			
	CIT C HDP	ADORESS		.~		CITY	-1.1	STATE ZIP			
	INFORMATION, IF IT EXIS	TS.   Signed Liver	DRILLED MITTER	DRICE DEPOS	SENTATIVE	<u> </u>	# SIGNED	(A 74608 STATE ZIP  (57 48(165)  C-57 LICENSE NIMBER			

D9CB 388 REV 11397

- DO NOT FILE IN DUPLICATE STATE OF CALIFORNIA ' Driller's Copy WELL COMPLETION REPORT STATE WELL NO./STATION NO. Refer to Instruction Pamphlet Page \_\_\_\_ of \_ Owner's Well No. Www - 4 No. 785128 LATITUDE LONGITUDE Date Work Began 11/21/00 Ended 11/21/00 Local Permit Agency ALAMEDA COUNTY PIBLIC WORKS Permit No. 400 - 842 Permit Date 11/20/00 - WELL OWNER GEOLOGIC LOG -Name EQUIVA SERVICES LLC Mailing Address PO BOX 7869

BURGANK CA ORIENTATION ( ) \_\_\_\_ VERTICAL \_\_\_\_\_ HORIZONTAL \_\_\_\_ ANGLE \_\_\_\_ (SPECIFY) DRILLING \_ FLUID METHOD DESCRIPTION SURFACE Describe material, grain size, color, etc. to Address 270 3 MASTIN LUTHER City OAKLAND < 5 E ATTACHE D 100 County ALAME DA APN Book \_\_\_\_\_Page \_\_\_ \_ Parcel \_ Township \_\_\_\_\_ Range \_\_\_\_ \_Section . Latitude 1 NORTH Longitude 1 DEG. MIN. SEC. MIN —ACTIVITY (∠)
∠ NEW WELL - LOCATION SKETCH -MODIFICATION/REPAIR SEE ATTACHED \_\_\_ Deepen \_\_\_ Other (Specify) SITE MAP DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG", PLANNED USES (∠) WATER SUPPLY .... Domestic \_\_ \_\_ Irrigation \_\_\_\_ Industrial MONITORING Y TEST WELL . CATHODIC PROTECTION . HEAT EXCHANGE \_ DIRECT PUSH INJECTION 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. REMEDIATION OTHER (SPECIFY) \_ WATER LEVEL & YIELD OF COMPLETED WELL DEPTH TO FIRST WATER NE \_\_ (Ft.) BELOW SURFACE DEPTH OF STATIC 44 7 (Ft.) & DATE MEASURED \_\_\_ \_\_\_\_ (GPM) & TEST TYPE ESTIMATED YIELD \* \_\_\_ TOTAL DEPTH OF BORING \_\_\_\_\_\_(Feet) TEST LENGTH \_\_\_\_\_ (Hrs.) TOTAL DRAWDOWN\_ 2-0 (Feet) TOTAL DEPTH OF COMPLETED WELL \_\_\_ \* May not be representative of a well's long-term yield. CASING (S) ANNULAR MATERIAL DEPTH FROM SURFACE DEPTH BORE-HOLE FROM SURFACE TYPE(エ) SCREEN CON: DUCTOR FILL PIPE DIA. INTERNAL GAUGE SLOT SIZE CE-BEN-MATERIAL / FILTER PACK DIAMETER OR WALL IF ANY MENT TONITE FO 1 GRADE to (TYPE/SIZE) to THICKNESS (Inches) (Inches) (4)  $(\leq)$  $(\angle)$ 55 F 24 17 A ATTACHMENTS (∠) CERTIFICATION STATEMENT I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. Geologic Log NAME SLE LANDSITTEL / CAMBRIA FNVIRONMENTAL TECHNOLOGY
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED) ✓ Well Construction Diagram Geophysical Log(s) 1144 65th St Soil/Water Chemical Analyses J Other TITE MAG Signed (REGG 1) RILLING ATTACH ADDITIONAL INFORMATION. IF IT EXISTS. WELL DRILLER/AUTHORIZED REPRESENTATIVE

DUPLICATE Driller's Copy	`.					WELL C	STATE OF	ETIC	OI.	N REPOR	Г		L L		DO NO	DT FILE IN
Page of Owner's Well No.	Mu	\i -	5													
Date Work Began_	11/2	1/5	د د		,	Ended (1/2		785				LATITUDE			LOI	NGITUDE
Local Permit Agency ALAMEDA COUNTY PAGELLE WO										C162			API	V/TRS/C	THER	
Permit No. 🗤							Date 11	201	G (	0		— WELL O				
ODIENTATION ( ( )						LOG —	·^		,	vame EQUIV	Д	SERVICE'S	W.NE.	, L		
ORIENTATION (쓰)	DRILLING	ì	• -		HOI	RIZONTAL AF			l N	Mailing Address	P	7 130X	78			
DEPTH FROM SURFACE	METHOD				DI	FUL ESCRIPTION	טוע		BURRANK CA 91570							
Fit. to Ft.	L	Descr	ibe	ma	ter	rial, grain size,	color, etc.		C	TY.			CATIO	N —	STAT	E ZIP
ļ <u>I</u>		1 -		· A -		C > 1 O &			Address 2703 MARTIN LUTHER KING							
	ZEE	<u> </u>	)	1/6	<u> +</u>	EU LOG		<del></del>	City DALLAGOA  County ALAGEDA							
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1 1	<u> </u>								WATER LEVEL & YIELD OF COMPLETED WELL							
,	 							<del> </del>	DEPTH TO FIRST WATER 10 (FL) BELOW SURFACE							
	, ————————————————————————————————————								1	DEPTH OF STATION	<b>.</b> 0	(E1) & DATE	MEASI	IBED	111:	22/00
1	1									ESTIMATED YIELD *						
TOTAL DEPTH OF			ر 9			et)				TEST LENGTH					(Ft.)	
TOTAL DEPTH OF	COMPLET	ED /	VEI	LL .		ZJ (Feet)			_	* May not be repre	sent	tative of a well's lon	g-term	yield.		
DEPTH						C	ASING (S)					DEPTH		ANN	ULAR	MATERIAL
FROM SURFACE	BORE- HOLE		PE.	(<	)	_				0.07.0175	۶ ا	ROM SURFACE			TY	PE
	DIA. (Inches)	BLANK	REN	PICTOR BCTOR	=	MATERIAL / GRADE	DIAMETER	GAUGI OFI WA	LL	SLOT SIZE		Ft. to Ft.	CE- MENT	BEN- TONITE	FILL	FILTER PACK (TYPE/SIZE)
Ft. to Ft.		[ F	ဒ္ဓ	3			(Inches)	THICKNE		(Inches)	<u> </u>		(=)			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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/	HMENTS	(∠)	-			I, the unde	ersigned, ce	ertify that	this	report is complete	e ar	ON STATEMENT nd accurate to the	best of	f my kı	nowled	ge and belief.
Geologic Log  I, the undersigned, certify that this report is complete and  Well Construction Diagram  NAME SUE LANDSITE (AMRELIA								ENVIRON	ME	NTA	k 7	ECHNOLOGY				
		nagrar	n			NAME /V	ON, FIRM, OR C	ORPORATION	) (ī	TYPED OR PRINTED)	<u> </u>	<u> </u>		<del>```</del>		and
Well Construction Diagram  Geophysical Log(s)  SoilWater Chemical Analyses  Other STTE AND?  ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.  Well Construction Diagram  NAME SUE LANDSITE (AMBIEIA ENVIRONMENTA TECHNOLOGY  (PERSON, FIRM, OR CORPORATION) (TYPEO OR PRINTED)  OAKLAND  ANDRESS  Signed CRECK (COLOR LINE)  WELL DRILLERAUTHORIZED REPRESENTATIVE  DATE SIGNED  OAKLAND  OAKLAN								17608								
✓ Other △						- ADDRESS	. د د سری	امرواد		15 A	j	CITY	./. /	<u>,                                    </u>	STATE	۱۳۶۶ مستسم پروازش و ایس و ایس و
ATTACH ADDITIONAL	INFORMATIO	ON, IF	- <i> T</i>	EXIS	5 <b>75</b> .	Signed WEII	DRILLER/AUTHO	// ( L</td <td>SEM!</td> <td>TUTIVE TO</td> <td>7</td> <td>DA:</td> <td>E SIGNE</td> <td><u> </u></td> <td><del></del></td> <td>-57 LICENSE NUMBER</td>	SEM!	TUTIVE TO	7	DA:	E SIGNE	<u> </u>	<del></del>	-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

	CLIENT I	Equiva Services LLC							BORING/WELL NAME						
	JOB/SITI	E NAM	E <u>08</u>	akl2	703	· · ·			DRILLING STARTED	22-Nov-00					
	LOCATIO	ON	27	703	Martin I	Luther	King, C	Dakland	DRILLING COMPLETED			··			
	PROJEC	TNUM	BER24	<u> 42-0</u>	781				WELL DEVELOPMENT DATE (YIELD) NA						
DRILLER Gregg Drilling									GROUND SURFACE ELEVATION Not Surveyed						
	DRILLIN	G MET	HODH	ollo	w-stem	auger			TOP OF CASING ELEVAT						
	BORING	DIAM	···	0"				····	SCREENED INTERVAL			0 ft (00 N	v-00) <u>∑</u>		
	LOGGE			. Jal					DEPTH TO WATER (First				7-00) <u>×</u>		
	REVIEW	ED BY			rk, RG				DEPTH TO WATER (Statio	c)	NA				
	REMARK	(S	<u>H</u>	and	augere	ed to 5'.	Locat	ed approx. 57' east of th	e southern comer.			<del></del>			
	TPHg (mg/kg)	BLOW	SAMPLEID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	ŁITHC	DLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM		
					_			silt, 3% sand, 2% gra @ 1' bgs- wood fragi @ 2.5' bgs- black	ments; 40% clay, 60% silt.		3.0		<ul> <li>Portland Type</li> <li>I/II Cement</li> <li>■ Bentonite Seal</li> </ul>		
					_	ML		Sandy SILT (ML); da 25% fine grained san	rk grey; damp; 55 clay, 70% nd; low plasticity.	6 silt,	5.0		✓ Monterey Sand #2/12		
			MW3-5.0	X	- 5 - 	ML ML		Gravelly SILT (ML); clay, 55% silt, 10% fi grained gravel; low p	yellow brown; dense; damp; ine grained sand, 25% fine i	; 10% angular	5.8 6.3				
						ML		SILT (ML); yellow broadled	own; damp to wet; 5% clay, sand; medium plasticity. ellow brown; very stiff; wet; :	- 1	10.0				
			MW3-10.5	X	—10 <b>—</b> 	SM		Silty SAND (SM); ye 30% silt, 50% fine gr slight plasticity.	llow brown; dense; wet; 8% ained sand, 12% fine grains	clay, ed gravel;	11.3				
					 	ML		Clavey SILT (ML): ve	ellow brown; stiff; wet; 20% % gravel; mottling; organics	s; medium			<ul><li>4"-diam., 0.010" Slotted Schedule 40 PVC</li></ul>		
					—15— -	SM		clay, 35% silt, 45% f	llow brown; dense; saturate ine to medium grained sand ar gravel; low plasticity.	□	15.7				
					<b>-</b> -			Cir Cu T /MI \ E	ght olive brown; saturated; 2	20%	19.2 20.0				
DT 3/8/01					<b>—</b> 20—	ML_		clay, 80% silt; low pl	asticity.	- <del>-</del> - /	20.0		Bottom of Boring @ 20 ft		
WELL LOG (TPH-G) GNOABCAE-11GINT1OAKL2703.GPJ DEFAULT.GDT 3/8/01															
KL2703.GP.															
1/GINT/OA															
OABCAE-															
PH-G) G:V															
בר רספ (ב															
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Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME
JOB/SITE NAME	oaki2703	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) NA
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static) NA
DEMARKS	Hand augered to 5' Located approx, 23' no	orth of the southern corner.

CONTACT DEPTH (ft bgs) TPHg (mg/kg) GRAPHIC LOG SAMPLE ID BLOW COUNTS U.S.C.S. DEPTH (ft bgs) EXTENT WELL DIAGRAM LITHOLOGIC DESCRIPTION 0.1 <u>ASPHALT</u> GC Clayey GRAVEL(GC); dark yellowish brown; 1.0 Portland Type moist-damp; 15% clay, 10% silt, 5% sand, 70% gravel; no I/II Cement Silty CLAY(CL); black; moist-damp; 60% clay, 40% silt; Bentonite Seal high plasticity. @ 3.5' fbg- dark greenish gray. Monterey Sand #2/12 @ 5' bgs- mottled; 60% clay, 25% silt, 15% fine grained MW4-5.0 CL sand. 10.0 Clayey SAND (SP); olive gray/dark yellow brown; moist-wet; 25% clay, 10% silt, 65% fine grained sand; MW4-10.5 mottled; medium to high plasticity. 4"-diam., 0.010" Slotted Schedule 40 SP **PVC** @ 15' bgs- 25% clay, 10% silt, 55% sand, 10% gravel. 18.5 Gravelly SILT(ML); olive brown; saturated; 10% clay, 60% sllt, 5% sand, 25% gravel; low plasticity. ML 20.0 20 Bottom of WELL LOG (TPH-G), G:LOABCAE-11GINTIOAKL2703.GPJ DEFAULT.GDT 3/8/01 Boring @ 20 ft PAGE 1 OF



BORING/WELL LOG -



Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME MW-5
JOB/SITE NAME	oakl2703	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
DEMARKS	Hand suggested to Et 1 agested annual 401 ag	

tand augered to 5°, Located approx, 10° east of the car port CONTACT DEPTH (ft bgs) TPHg (mg/kg) SAMPLE ID BLOW GRAPHIC LOG U.S.C.S. EXTENT DEPTH (ft bgs) WELL DIAGRAM LITHOLOGIC DESCRIPTION <u>ASPHALT</u> 0.2 FILL brown; dense; dry; 40% siit, 10% sand, 50% 1.2 Portland Type gravel; low plasticity. I/II Cement ML, Clayey SILT (ML) very dark brown; very stiff; dry; 40% 3.0 clay, 60% silt; medium plasticity. Bentonite Seal Silty SAND (SM); very dark brown; dense; damp; 10% clay, 35% silt, 53% fine grained sand, 2% gravel; low SM Monterey 5.0 plasticity. Sand #2/12 Clayey SILT (ML); olive brown; very stiff; dry to moist; MW5-5.0 25% clay, 50% silt, 23% sand, 2% gravel; low plasticity. ML MW5-10.5 @ 10' bgs- saturated; 40% clay, 60% silt; medium to high 11.3 plasticity. Clayey SAND(SC); dark greenish grey; very stiff; saturated; 15% clay, 13% silt, 70% fine grained sand, 2% 4"-diam., fine subangular grained gravel; low plasticity. SC 0.010" Slotted Schedule 40 PVÇ 15.0 Gravelly SILT (ML); olive brown; saturated: 10% clay, 70% silt, 5% fine grained sand, 2% fine subangulare grained gravel; low plasticity. ML @ 18.5' bgs- interbedded silt and gravelly silt; yellowish brown; saturated; 5% clay, 90% silt, 5% gravel; low 20.0 WELL LOG (TPH-G) GNOABCAE-INGINTIOAKL2703.GPJ DEFAULT GDT 3/8/01 plasticity. Bottom of Boring @ 20 ft

# **BORING/WELL LOG**



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

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

REMARKS _	Har	nd auger	ed to 5'	Locat	ted approx. 28' north of B-18.	 _		
TPHg (mg/kg) BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (# bgs)	WELI	L DIAGRAM
WELL LOG (TPH-G) G:IOABGAE-11GINTYOAKLZ703.GFJ DEFAULT.GDT 3/8/01	B17-5.0	-10-	ML		ASPHALT Clayey SilLT (ML); very dark brown; stiff; damp; 40% clay, 60% silt; medium plasticity.  Silty SAND (SM); black; damp; 5% clay, 25% silt, 70% fine grained sand; low plasticity.	5.0		Portland Type I/II Cement  Bottom of Boring @ 15 ft

# **BORING/WELL LOG**



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

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME B-18					
JOB/SITE NAME	oakl2703	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 NA					
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered) 14.6 ft (22-Nov-00)					
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static) NA					
		<del></del> -					

REMARKS Hand augered to 5'. Located approx. 30' south of the car port. CONTACT DEPTH (# bgs) TPHg (mg/kg) GRAPHIC LOG SAMPLE 1D BLOW COUNTS EXTENT DEPTH (ft bgs) U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION 0.2 **ASPHALT** Clayey SILT (ML); black; very stiff; 40% clay, 60% silt; high plasticity. ML 3.0 Sandy SILT (ML); dark grey; 5% clay, 70% silt, 25% fine grained sand; low plasticity. B18-5.0 ML Portland Type
I/II Cement B18-7.0 @7' bgs- dark olive grey 10.0 Silty SAND (SM); yellow brown; wet; 8% clay, 30% silt, 50% fine grained sand, 12% fine grained gravel. SM 15.0 Bottom of Boring @ 15 ft WELL LOG (TPH-G) G:YOABCAE-1YGINTYOAKI.2703.GPJ DEFAULT.GDT 3/8/01 PAGE 1 OF





Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME B-19
JOB/SITE NAME _	oakl2703	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

CONTACT DEPTH (ft bgs) TPHg (mg/kg) SAMPLE ID GRAPHIC LOG BLOW COUNTS EXTENT U.S.C.S. DEPTH (ft bgs) LITHOLOGIC DESCRIPTION **WELL DIAGRAM** ASPHALT Clayey SILT (ML); black; very stiff; 40% clay, 60% silt; high plasticity. 0.2 ML 3.0 Sandy SILT (ML); dark brey; 5% clay, 70% silt, 25% fine grained sand; low plasticity. ML B19-5.0 7.0 B19-7.0 Clayey SILT (ML); brown; very stiff; moist; 40% clay, 60% silt; high plasticity. ML 10.0 Portland Type Silty SAND (SM); yellow brown; stiff; wet; 8% clay, 30% I/II Cement silt, 50% fine grained sand, 12% fine grained gravel; low plasticity. Ā SM 20.0 WELL LOG (TPH-G) G:OABCAE-1\GINT\OAKL2703.GPJ DEFAULT.GOT 3/8/01 Bottom of Boring @ 20 ft PAGE 1 OF 1

# ATTACHMENT D

**Laboratory Analytical Reports for Soil and Groundwater Samples** 



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,

Joel Kiff



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

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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-Butanoi	< 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

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



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

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



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
Sample	vale	. 1 1/4 1	/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Веплепе	< 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

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



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



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

Sample Date :11/21/2000		Method			
Parameter	Measured Value	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



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



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/.	22/20	UU

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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



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



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

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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

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

Approved By: Joel Kiff



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



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



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

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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:

Jøel Kiff



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



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

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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
Methyi-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



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 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

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

Date: 12/08/2000

Project Name: 2703 MARTIN LUTHER

QC Report : Matrix Spike/ Matrix Spike Duplicate

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		Duplicat Spiked Sample Percent Recov.		Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery D	ata													
Benzene	18436-05	<0.0050	0.0454	0.0490	0.0352	0.0394	mg/Kg	EPA 8260B	12/04/200	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	12/04/200	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	12/04/200	96.9	96.5	0.455	70-130	25
Methyl-t-Butyl Ethe		<0.0050	0.0454	0.0490	0.0346	0.0379	mg/Kg		12/04/200	76.1	77.4	1.64	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

Date: 12/08/2000

Project Name: 2703 MARTIN LUTHER

QC Report : Laboratory Control Sample (LCS)

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

Approved By:

Joel Kiff

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

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

Date: 12/08/2000

Project Name: 2703 MARTIN LUTHER

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: 242-0781

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Spiked Sample Date Percen Analyzed Recov.			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	12/02/20087.1	88.0	0.959	70-130	25
Toluene	18451-04	<0.50	49.8	24.8	45.4	22.7	ug/L	EPA 8260B	12/02/20091.2	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	12/02/200112	112	0.0357	70-130	25
Methyl-t-Butyl Eth	ner 18451-04	3.1	49.8	24.8	45.9	26.2	ug/L	EPA 8260B	12/02/20085.9	92.9	7.78	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

Date: 12/08/2000

Project Name: 2703 MARTIN LUTHER

QC Report : Laboratory Control Sample (LCS)

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	

Approved By:

Joel Kiff

# **EQUIVA Services LLC Chain Of Custody Record**

18436

720 Olive Drive, Suite D

DESCIPCIE & ENGINEERING Karen Petryna

Equiva Project Manager to be invoiced:

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# **EQUIVA Services LLC Chain Of Custody Record**

18436

720 Olive Drive, Suite D

Equiva Project Manager to be involced:

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	Fleid Sample	Identification	SAMI	PLING	MATRIX	NO. OF CONT.	į	TPH.	BTEX / MTBE (8021B)	BTEX / MTBE	VOCs Full List + Oxygenates	MTBE (8250B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Vapor VOCs	Vapor VOCs	Vapor TPH (ASTM 3416m)	Vapor Fixed	Test for						
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# EQUIVA Services LLC Chain Of Custody Record \8436

Equiva Project Manager to be invoiced:

720 Olive Drive, Suite D

Davis, CA 95616

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Oakland, CA 94608 TELEPHONE:   FAX:	E-MAIL:		Barb	ara Ja	kub	,												:					
510-420-0700 510-420-9170															_							11.5	
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SPECIAL INSTRUCTIONS OR NOTES: TEMPERAT	URE ON RECEIPT CO		줃	Ē		ates	VOCs Full List + Oxygenates	ig l	r Vole	natic	(B)				Full List (TO-15)	Ē	MT:		ŀ				Container/Preservative
	•		(8015m)	680	<u>@</u>	Oxygenates	yge	ij.	n for	/Aroi	Ethanol, Methanol (8015B)			BTEX / MTBE	125	Vapor TPH (ASTM 3416m)		₽					or PID Readings or Laboratory Notes
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Field Sample Identification DATE	TIME MATRIX	NO, OF CONT,	TPH	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE	Š Š	MTB	EPA	VOC	Etha	Meta	TRP	Vapor VOCs	Vapo	Vapo	Vapo	Test					
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# ATTACHMENT E Soil Stockpile Laboratory Analytical Results



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,



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: Jøel Kiff



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

Sample Date :11/22/2000		Method			
Parameter	Measured Value	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

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

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

Date: 12/06/00

Project Name: 2703 Martin Luther King

QC Report : Matrix Spike/ Matrix Spike Duplicate

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.		Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery D	ata													
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 Ethe	er 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

Date: 12/06/2000

Project Name: 2703 Martin Luther King

QC Report : Laboratory Control Sample (LCS)

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	

Approv

Joel Kiff





December 13, 2000

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

RE: Equiva 2703 Martin Luther King, Oakland, CA

Sancha R. Hanse)

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

Project: Equiva 2703 Martin Luther King, Oakland, CA

720 Olive Drive, Suite D Davis CA, 95616 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	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	%REC Limits	RPD_	RPD Limit	Notes
Batch 0120120 - EPA 3050B			<del></del>			<del></del>	<u>-</u>			
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)	Sou	rce: S01142	4-01	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)	Sou	ırce: S01142	4-01	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



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

Kiff Analytical

Project: Equiva 2703 Martin Luther King, Oakland, CA

720 Olive Drive, Suite D Davis CA, 95616 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

Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

ND

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



ANALYTICAL LLC Fax: 530.297.4803						Lab No Page of								_																	
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Sample Designation	Date	Time	40 ml VOA	SLEEVE		Ş		SE S	NONE	NO JOE DIVIN	WALER COLL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)		TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)		7 Oxygenates (8250B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (3421/239.2)			3	12 hr/24 hr/48 hr/72	12 hr = Kesults by 9 a. 24 hr = Results by 5 p.	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
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# EQUIVA Services LLC Chain Of Custody Record /

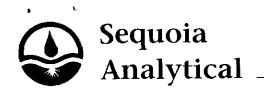
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January 09, 2001

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

RE: Equiva 2703 Martin Luther King, Oakland, CA / S012199

Sancha RHansa

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

Client Services Representative

CA ELAP Certificate Number 1624



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

Kiff Analytical

Davis CA, 95616

Project: Equiva 2703 Martin Luther King, Oakland, CA

720 Olive Drive, Suite D

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-la,lb,lc,id	S012199-01	Soil	11/22/00 00:00	12/14/00 15:43

Sequoia Analytical - Sacramento





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	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Anatyzed	Method	Notes
SP-1a,1b,1c,1d (S012199-01) Soil	Sampled: 11/22/00 00:00	Recei	ved: 12/1	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	Resuit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L20015 - LUFT-DHS									<u></u>	
Blank (0L20015-BLK1)				Prepared:	12/20/00	Analyzed:	12/22/00			
Organic Lead	ND	1.0	mg/kg							
LCS (0L20015-BS1)				Prepared:	12/20/00	Analyzed:	12/22/00			
Organic Lead	11.0	1.0	mg/kg	20.0		55.0	40-120			
LCS Dup (0L20015-BSD1)				Prepared:	12/20/00	Analyzed:	12/22/00			
Organic Lead	11.0	1.0	mg/kg	20.0		55.0	40-120	0	20	
Matrix Spike (0L20015-MS1)	Soi	arce: S01219	9-01	Prepared:	12/20/00	Analyzed:	12/22/00			
Organic Lead	14.3	1.0	mg/kg	20.0	ND	71.5	0-75			
Matrix Spike Dup (0L20015-MSD1)	Son	ırce: S01219	9-01	Prepared:	12/20/00	Analyzed:	12/22/00			
Organic Lead	13.2	1.0	mg/kg	20.0	ND	66.0	0-75	8.00	25	



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

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 - Sacramento

#### SEGUCIA ANALYTICAL RELOG SHEET

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720 Olive Drive; Suite D Devis; CA, 966 16. Lab: 630,297,4800 Fax: 630,297,4803

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Equiva Project Manager to be involced: 720 Oilve Drive, Suite D' . .... Davis, CA 95616 Case Davi . (630) 297-4800 · (530) 297-4888 fm bris Emdronmental Technology, Inc. 2703 Martin Lutherking Jr. Way, Oak Land, CA 65th Street land, CA 94508 S10-420-0170 : £10-420-4700 INAROUND TIME (BURINGS CAVE): TO DAYS O S DAYS 72 HOURS 12 40 HOURS 12 24 HOURS 14 LESS THAN 24 HOURS REQUESTED ANALYSIS IA - RINGOS REPORT FORMAT [] UST AGENCY: FIELD NOTES: ME MIRE CONFIRMATION HOHEST HOUREST per BORENO. TEMPERATURE ON RECEIPT OF SCIAL INSTRUCTIONS OR MOTES: Container/Pressuretive or PID Readings of Laboratory Holes SAMPLEIG Field Sample Identification CONT. DATE TIME -01 ~02-۵۵۔ -03 -04 analysed by Highest of Airphology (Byroson) White wooders to Kithraly hool Linguistal by (Hystalia) 112700 1620 10/22/30 Fl m 46:00 that the state of

# EQUIVA Services LLC Chain Of Custody Record 18435

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MAY 2 1 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 POLLOWING 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 GASOLINDOR 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