

RECEIVED

By dehloptoxic at 1:56 pm, Mar 01, 2007

Chevron Environmental
Management Company
6001 Bollinger Canyon Rd, K2236
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-9559
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Dana Thurman
Project Manager

February 28, 2007

(date)

ChevronTexaco

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station # 21-1173

Address: 500 grand Avenue, Oakland, CA

I have reviewed the attached report titled Subsurface Investigation Report
and dated February 28, 2007.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



Dana Thurman
Project Manager

Enclosure: Report

February 28, 2007

Mr. Barney Chan
Alameda County Health Services Agency (ACHCS)
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **Subsurface Investigation Report**
Former Texaco Service Station (# 21-1173)
500 Grand Avenue
Oakland, California



Dear Mr. Chan:

Cambria Environmental Technology, Inc. (Cambria) has prepared this *Subsurface Investigation Report* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The work was performed in accordance with Cambria's August 23, 2006 *Work Plan for Additional Site Assessment* and approved by the ACHCS in a letter dated September 5, 2006 (Attachment A). Cambria advanced six borings, in three pairs, to determine if soil vapor concentrations exceed the San Francisco Bay Regional Water Quality Control Board (SF Bay RWQCB) risk-based screening levels for soil vapor. The site background, details of the investigation and Cambria's conclusions and recommendations are presented below.

SITE BACKGROUND

Site Description: The site is located at 500 Grand Avenue in Oakland, California, on the northeast corner of the intersection of Grand Avenue and Euclid Avenue (Figure 1). Prior to decommissioning in 1991, the site was an active service station. The site is currently used as a parking lot. No structures currently exist on site. The site is capped with asphalt and the sidewalks are concrete. Surrounding land use is mixed commercial and residential. The site is relatively flat and level, and is at an approximate elevation of 20 feet above mean sea level (msl). Approximately 200 feet south of the site is Lake Merritt. The local topography consists of gently rolling hills and flatland.


Site Hydrogeology: Based on previous site investigation, from the surface to approximately 6 to 10 feet below grade (fbg) is gravelly clay fill material. The fill material is underlain by sandy and gravelly clay to sandy clay and silty sand. Since 1992, groundwater levels in monitoring wells have fluctuated between 1 to 12 fbg. Historical groundwater monitoring reports show that groundwater flows to the south and southeast, toward Lake Merritt.

**Cambria
Environmental
Technology, Inc.**

2000 Opportunity Drive
Suite 110
Roseville, CA 95678
Tel (916) 677-3407
Fax (916) 677-3687

PREVIOUS INVESTIGATIONS

May 1988, Sensitive Receptor Survey: In May 1988, a sensitive receptor survey was performed. According to the sensitive receptor survey; there are no public water supplies wells within 2,500 feet, there are no private water supply wells within 1,000 feet, and there is no school within 1,000 feet. Lake Merritt, an estuarine urban surface water body, is located within 200 feet of the property. Local drinking water is supplied via the Mokelumne Aqueduct from the Sierra Nevada Mountains. Refer to Harding Lawson Associates 1989 *Environmental Assessment Report* (HLA 1989).



September 1988, Soil Gas Survey: In September 1988, a soil gas survey was performed with 19 soil gas samples (HLA 1989). Elevated levels of total hydrocarbons and benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in the soil gas survey. Based on these results, HLA concluded that off-site migration had occurred beneath a portion of Grand Avenue.

September 1990-January 1991, Removal of Used Oil-UST and Clay Sewer Pipe: In September 1990, the 500-gallon waste-oil UST was excavated and removed from the site after finding product in backfill. The excavation was approximately 8 feet deep, 7.5 feet wide, and 9.5 feet long. The used-oil tank had no apparent cracks or points of leakage when it was removed from the excavation. Total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), total oil & grease (TOG), and BTEX were detected in soil. Chlorinated hydrocarbons were not detected in soil from the tank excavation. During excavation of the used-oil tank, two clay pipes were discovered at approximately 1.5 fbg. One boring sample, B-13 at 2.5 fbg, collected near the western end of the clay pipe detected naphthalene at 0.90 milligrams per kilogram (mg/kg), 2-methylnaphthalene at 1.40 mg/kg, bis (2-ethylhexyl) phthalate at 0.26 mg/kg, and trichloroethane at 0.06 mg/kg. In January 1991, the clay pipe was excavated in the area of the used-oil UST. The excavation was approximately 15 feet long, 2.5 feet wide, and 4.5 feet deep. TPHg, TPHd, TOG, BTEX, and total petroleum hydrocarbons as motor oil (TPHmo) were detected in soil from the trench, but no chlorinated hydrocarbons were detected.

1991 Decommissioning: The service station was decommissioned in late 1991.

April 1992-January 1993, Removal of Three USTs, Excavation Activities, and Confirmation Samples: In April 1992, three 10,000-gallon USTs were removed from the site, along with two dispenser islands and associated piping. During tank removal operations, approximately 25,000 gallons of hydrocarbon-bearing water was pumped and removed from the excavation pit. In April and May 1992, over-excavation at the former fuel USTs extended to a depth of approximately 10 fbg, and in the area of the former dispenser islands, excavation extended to approximately 9 fbg.

Approximately 1,550 cubic yards of soil were excavated from the area of the USTs, pump islands, and fuel lines. The material was subsequently disposed of off-site at a Chevron approved disposal facility.

Confirmation soil samples were collected at the bottom and sides of the excavation. Samples collected along the southern edge of the excavation identified TPHg at a maximum of 1,000 mg/kg. The excavation pit could not be extended south without undermining Grand Avenue. In January 1993, another phase of excavation occurred in the northern portion of the site with excavation of approximately 828 cubic yards of hydrocarbon impacted soil. Dimensions of the January 1993, excavation was 6.5 feet deep, 25 feet across by 45 feet long. Approximately 6,300 gallons of water was pumped from the excavation. Clean imported fill was used to backfill the excavation pit.



June 1988-1993, Soil and Groundwater Investigations: In June 1988, environmental activities included an investigation on whether petroleum hydrocarbons had impacted shallow soil and groundwater. This included soil borings, along with installation and sampling of monitoring wells. Concentrations of BTEX were detected in low concentrations in shallow soil samples (HLA July 1988). BTEX was also detected in groundwater. Additional site characterization was performed between 1989 and 1993.

December 1996 ORC Remedial Action: In December 1996, additional remediation consisted on installing oxygen-releasing compound (ORC) in selected monitoring wells to enhance biodegradation of the dissolved petroleum hydrocarbon plume. The ORC socks were removed before the second quarter 2000 groundwater monitoring event.

February 2001 Closure Request: In a February 13, 2001, letter report titled *Underground Storage Tank Case Closure Request* for the site, KHM Environmental Management requested that ACHCS close the case.

INVESTIGATION RESULTS

The objective of this investigation was to determine whether soil or soil vapor concentrations pose a risk to human health and the environment. To meet this objective, Cambria advanced a total of six soil borings, in three pairs, utilizing a direct push Geoprobe rig. Two soil vapor samples were collected in borings SV-1 and SV-2. Soil and vapor sample results are summarized in Tables 1 and 2, respectively. Boring logs and Alameda County Public Works Agency permit are presented in Attachment B. Cambria's *Standard Field Procedures for Soil and Soil Vapor Sampling* are presented as Attachment C. Laboratory analytical results for soil and soil vapor are presented in Attachments D and E, respectively.

VAPOR PROBE CONSTRUCTION AND INSTALLATION

Project Personnel: Staff Geologist John Bostick and Senior Staff Scientist Kiersten Hoey conducted all field work under the supervision of Professional Geologist David W. Herzog, P.G. #7211.

Permits: Alameda County Public Works Agency drilling permit number W2006-0963 (Attachment B).

Drilling Dates: November 20, 2006 to November 21, 2006.

Number of Borings: Six (S-1 through S-3, SV-1 through SV-3)

Drilling Method: Direct push Geoprobe and hand auger.

Encountered Lithology: Lithology encountered in borings S-1, S-2, and S-3 consist of clay, silt and silt with sand, to a total explored depth of 4 fbg.

Soil Sampling Technique: Disturbed hand augured soil samples were collected from borings S-1 through S-3. All samples were labeled, placed on ice, and transported to Lancaster Laboratories following prescribed chain of custody procedures.

Soil Vapor Sampling

Technique: Five 6-liter Summa™ canisters, four for sample collection and one for purge collection were connected at each vapor probe sampling point by a stainless steel T-connection to create a closed circuit. The purge Summa™ canister valve was opened and an appropriate volume was purged from the sampling point tubing.

After purging, the purge Summa™ canister was closed and the sample Summa™ canister valve was opened. The vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5 pounds per square inch was observed on the vacuum gauge.

Laboratory Analysis: Soil samples were analyzed for:

- Total Petroleum Hydrocarbons as diesel (TPHd) by EPA Method 8015B,
- Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method 8015B Modified,
- BTEX by EPA Method 8260B, and
- Total Petroleum Hydrocarbons as Oil and Grease (TOG) by EPA Method 5520 D/E/F.

Soil vapor samples were analyzed for:

- TPHg and BTEX by EPA Method TO-3.

Depth to Water: Groundwater was not encountered during drilling and probe installation.

Soil Disposal: No waste was derived during this investigation.

HYDROCARBON RESULTS FOR SOIL

TPHd was detected in S-1, S-2 and S-3 at 15 mg/kg, 580 mg/kg, and 11 mg/kg, respectively. TPHg was detected in S-1 and S-2 at 390 mg/kg and 3,800 mg/kg, respectively. Benzene was detected in S-2 at 0.41 mg/kg. No TOG was detected in any of the samples. SF Bay RWQCB Environmental Screening Levels (ESL)¹ for residential land use for TPHd, TPHg, benzene, are 100 mg/kg, 100 mg/kg, 0.18 mg/kg respectively. TPHd, TPHg and BTEX detected in S-2, and only TPHg in S-1 exceed the targeted ESLs. Soil analytical results are presented in Table 1.

¹ ESL from Table B: Shallow Soil (<3m)-Water is not a current potential source of drinking water in Chapter 4 of *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated February 2005

HYDROCARBON RESULTS FOR VAPORS

On November 20, 2006, vapor probes SV-1 through SV-3 were sampled. Purging was conducted at a rate of approximately 0.5 liters per second (L/sec) and sampling was conducted at a rate of approximately 0.05L/sec. Vapor samples were collected in Summa™ canisters after removing approximately three purge volumes from each discrete interval. A field duplicate was taken simultaneously with the original sample at SV-2. Sample SV-3 was cancelled due to lack of volume in the container. SV-1 reported concentrations of TPHg and benzene vapors at 62,960 $\mu\text{g}/\text{m}^3$ and 3,513 $\mu\text{g}/\text{m}^3$, respectively. SV-2 reported concentrations of TPHg and benzene vapors at 2,204,000 $\mu\text{g}/\text{m}^3$ and 35,130 $\mu\text{g}/\text{m}^3$, respectively. SF Bay RWQCB ESLs² for residential use for TPHg and benzene vapors are 26,000 $\mu\text{g}/\text{m}^3$ and 85 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor analytical results are presented in Table 2.



DISCUSSION

Soil analytical results from borings S-1 through S-3 are consistent with historical soil data collected during overexcavation activities in 1992. There does not appear to be a significant decline in concentrations in soil since then, but because of the limited extent of impact along the southern property boundary and extending beneath Grand Avenue, significant risk to human health or the environment do not appear to exist. Historical groundwater data from 2000 showed that TPHg or BTEX were not leaching from soil and migrating downgradient, only minor concentrations of TPHd had migrated downgradient, but not at significant risk levels, and only TOG concentrations at levels higher than any reported on-site were detected beneath Grand Avenue. Based on this, remaining residual hydrocarbon concentrations in soil do not appear to pose a significant threat.

Soil vapor analytical results from SV-1 show significant decline in concentrations from data collected by HLA in 1988 in that area of the site. Soil vapor analytical results from SV-2 are comparable to historical data obtained in that area of the site, but because the results from SV-2 (dup), which was collected simultaneously with SV-2, are less than one-half the concentrations reported in SV-2, these results are suspect. Also, Cambria inadvertently left out analyses for leak testing compounds, so the results cannot be validated. Because of this, and no complete sample could be obtained from boring SV-3 due to low flow conditions, Cambria will perform additional soil vapor sampling. Cambria will

² ESL from Table E: Indoor Air and Soil Gas (Vapor Intrusion Concerns) in Chapter 4 of *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated February 2005

prepare and submit a Supplemental Soil Vapor Workplan to repeat sample collection in the previously proposed areas of the site, along with additional sampling onsite and just offsite along the northern margin of Grand Avenue to confirm previously reported hydrocarbon concentrations in soil, and further evaluate risk at this site.

CLOSING

Please contact Christene Sunding (ext 109) or David Herzog (ext 112) at (916) 677-3407 if you have any questions or comments regarding this investigation.



Sincerely,
Cambria Environmental Technology, Inc.

Lindsay Marsh
FOR
Lindsay Marsh
Staff Geologist

Christene M. Sunding
Christene M. Sunding
Project Geologist

David W. Herzog
David W. Herzog, P.G. #7211
Senior Project Geologist



Figures: 1 – Vicinity Map
2 – Site Plan

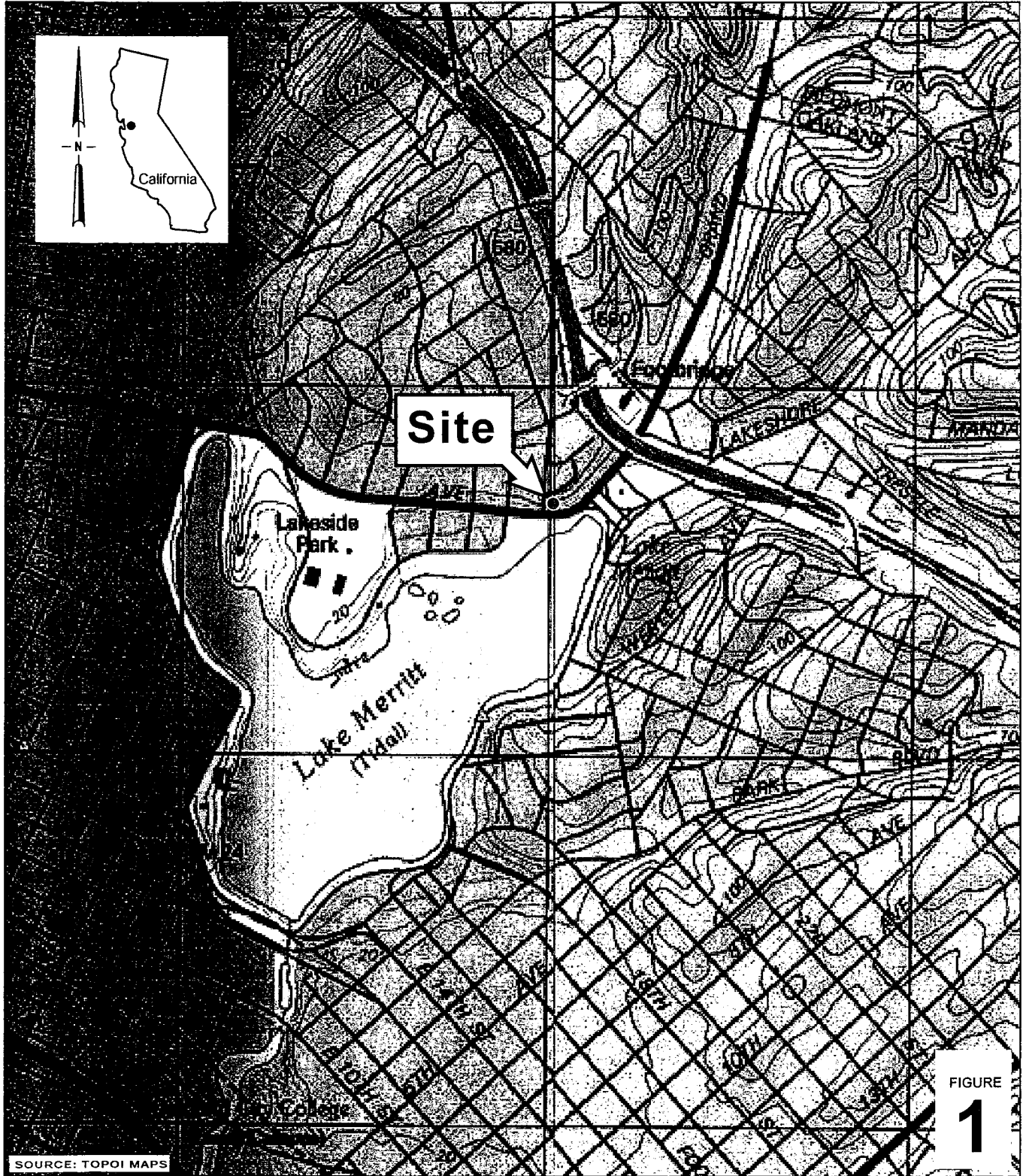
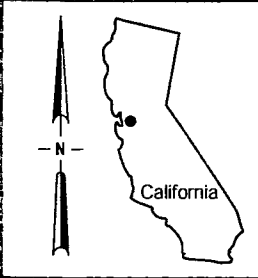
Tables: 1 – Soil Analytical Data
2 – Vapor Analytical Data

Attachments: A – Regulatory Correspondence
B – Boring Logs and ACPWA Permit
C – Standard Field Procedures for Hand-Auger Soil Borings and Soil and Soil Vapor Sampling
D – Analytical Soil Sample Results
E – Analytical Soil Vapor Sample Results

cc: Mr. Dana Thurman, Chevron Environmental Management Company, PO Box 6012, K2236,
San Ramon, CA 94583

Cambria Environmental Technology, Inc. (Cambria) prepared this document for use by our client and appropriate regulatory agencies. It is based partially on information available to Cambria from outside sources and/or in the public domain, and partially on information supplied by Cambria and its subcontractors. Cambria makes no warranty or guarantee, expressed or implied, included or intended in this document, with respect to the accuracy of information obtained from these outside sources or the public domain, or any conclusions or recommendations based on information that was not independently verified by Cambria. This document represents the best professional judgment of Cambria. None of the work performed hereunder constitutes or shall be represented as a legal opinion of any kind or nature.

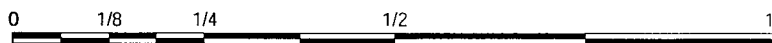




R:121-1173 OAKLAND121-1173_VICINITY MAP.A1

SOURCE: TOPOI MAPS

FIGURE
1



SCALE : 1" = 1/4 MILE

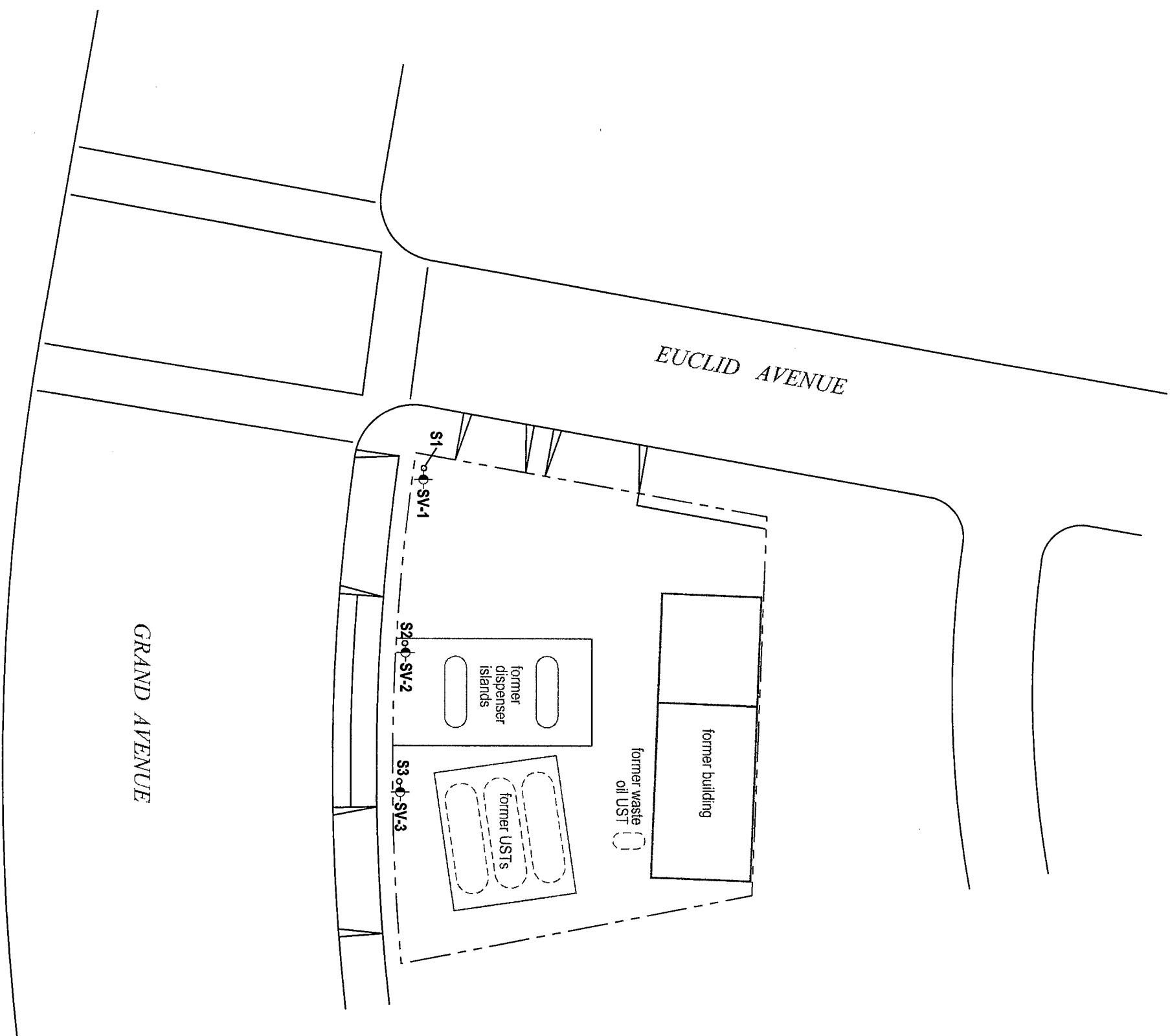
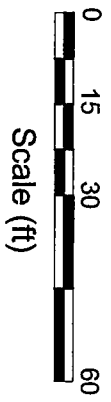
Former Texaco Station 21-1173
 500 Grand Avenue
 Oakland, California



C A M B R I A

Vicinity Map

Basemap modified from drawing provided by Harding Lawson Associates



| EXPLANATION | |
|-------------|--------------------------------|
| SV-1 | Vapor extraction well location |
| S1 | Soil sample location |

FIGURE 2

Table 1
Soil Analytical Data
 Former Texaco Station 21-1173, 500 Grand Ave, Oakland, CA

| Sample ID | Depth (fbg) | Date Sampled | TPHd | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | TOG |
|---|-------------|--------------|------|-------|---------|---------|--------------|---------|------|
| concentrations in milligrams per kilogram (mg/kg) | | | | | | | | | |
| S-1 | 4 | 11/20/06 | 15 | 390 | <0.062 | <0.12 | 0.90 | 1.90 | <330 |
| S-2 | 4 | 11/20/06 | 580 | 3,800 | 0.41 | 17 | 36 | 170 | <330 |
| S-3 | 4 | 11/20/06 | 11 | <1.0 | <0.0005 | <0.001 | <0.001 | <0.001 | <330 |
| Table A ¹ -ESL Residential Land Use | | | 100 | 100 | 0.044 | 2.9 | 3.3 | 2.3 | 500 |
| Table B ² -ESL Residential Land Use | | | 100 | 100 | 0.18 | 9.3 | 32.0 | 11 | 500 |

Abbreviations:

TPHd= Total petroleum hydrocarbons as diesel by EPA Method 8015B

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015B Modified

BTEX = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

TOG = Total oil and Grease by EPA Method 5520 D/E/F

<x = Not detected above method detection limit.

¹ ESL from Table A: Shallow Soil (<3m)-Water is a current potential source of drinking water in Chapter 4 of Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated February 2005

² ESL from Table B: Shallow Soil (<3m)-Water is not a current potential source of drinking water in Chapter 4 of Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated February 2005

Table 2
Vapor Analytical Data
 Former Texaco Station 21-1173, 500 Grand Ave, Oakland, CA

| Sample | Sample | TPHg ² | Benzene | Toluene | Ethylbenzene | Total Xylenes |
|--|----------|--|---------|---------|--------------|---------------|
| ID | Date | Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$ | | | | |
| SV-1 | 11/20/06 | 6.0E+04 | 3.4E+03 | 3.3E+02 | 2.6E+03 | 3.8E+02 |
| SV-2 | 11/20/06 | 2.0E+06 | 3.4E+04 | 1.6E+05 | 6.4E+04 | 2.8E+05 |
| SV-2 Duplicate | 11/20/06 | 7.2E+05 | 1.4E+04 | 6.9E+04 | 2.7E+04 | 1.1E+05 |
| Table E ¹ -ESL Residential Land Use | | 2.6E+04 | 8.5E+01 | 6.3E+04 | 4.2E+05 | 1.5E+05 |

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes by EPA Method TO-3 Modified

2=TPH (C2 + Hydrocarbons) referenced to Gasoline

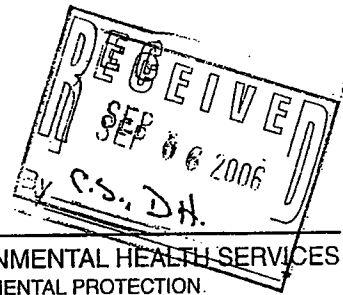
¹ ESL from Table E: Indoor Air and Soil Gas (Vapor Intrusion Concerns) in Chapter 4 of Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated

ATTACHMENT A

Regulatory Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



September 5, 2006

Mr. Dana Thurman
Chevron Environmental Management Co.
6001 Bollinger Canyon Rd., Room K2236
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Dear Mr. Thurman:

Subject: Fuel Leak Case RO0000391, Chevron #21-1173/Exxon #7-0237,
500 Grand Ave., Oakland, CA 94610

Alameda County Environmental Health (ACEH) staff has recently reviewed the case file for the subject site including the August 23, 2006 Work Plan for Additional Site Assessment by Cambria Environmental. The work plan proposes additional soil vapor sampling and soil sampling to provide an indication of current conditions in areas of potential environmental concern. Three boring pairs are proposed along the southern property boundary where previous elevated TPHg, BTEX had been detected in soil and also where elevated soil vapor samples had been detected. The shallow boring will be advanced to approximately 3.5' bgs and a soil vapor sample collected. The adjacent boring of the pair will be advanced to approximately 4' bgs for soil sampling. We concur that additional information in this area of the site may be sufficient for site closure. We request that you address the following technical comments when performing the proposed work and submit the technical report requested below.

TECHNICAL COMMENTS

1. We request that appropriate quality control sampling be performed when collecting the soil vapor samples. This should follow the DTSC Guidance document, December 15, 2004, revised February 7, 2005. A tracer gas and a background air sample should be included.
2. Because of the past analytical results, we request that the soil sample boring for the middle boring be located as close as possible to the former sample WS-4 and also be collected at a depth of 5' bgs. All borings should be advanced avoiding excavation backfill material. Vertical delineation of contamination should be performed as necessary.

Please submit your investigation report to our office by November 3, 2006.

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at barney.chan@acgov.org.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement

Mr. Dana Thurman
RO 391, 500 Grand Ave., Oakland
Page 3 of 3

including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6765.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: files, D. Drogos

Mr. David Herzog, Cambria Environmental, 2000 Opportunity Drive, Suite 110,
Roseville, CA 95678

Mr. Brad Howard, Howard Tours Inc., 516 Grand Ave., Oakland, CA 94610-3515

9_5_06 500 GrandAve

ATTACHMENT B

Boring Logs and ACPWA Permit

Boring/Well Log Legend

KEY TO SYMBOLS/ABBREVIATIONS

- | | |
|--|--|
| <p>▽ First encountered groundwater</p> <p>▼ Static groundwater</p> <p> Soils logged by hand-auger or air-knife cuttings</p> <p> Soils logged by drill cuttings or disturbed sample</p> <p> Undisturbed soil sample interval</p> <p> Soil sample retained for submittal to analytical laboratory</p> <p> No recovery within interval</p> <p> Hydropunch screen interval</p> | <p>————— Definite contact line</p> <p>----- Inferred or gradational contact line</p> <p>PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)</p> <p>fbg = Feet below grade</p> <p>Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval</p> <p>msl = Mean sea level</p> <p>Soils logged according to the USCS.</p> |
|--|--|

UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

| Major Divisions | | Graphic | Group Symbol | Typical Description |
|---|---------------------------|----------------------------------|---|---|
| Coarse-Grained Soils (>50% Sands and/or Gravels) | Gravel and Gravelly Soils | | GW | Well-graded gravels, gravel-sand mixtures, little or no fines |
| | | | GP | Poorly-graded gravels, gravel-sand mixtures, little or no fines |
| | | | GM | Silty gravels, gravel-sand-silt mixtures |
| | GC | | Clayey gravels, gravel-sand-clay mixtures | |
| | Sand and Sandy Soils | | | SW |
| | | SP | | Poorly-graded sands, gravelly sand, little or no fines |
| | | SM | Silty sands, sand-silt mixtures | |
| | SC | Clayey sands, sand-clay mixtures | | |
| Fine-Grained Soils (>50% Silts and/or Clays) | Silts and Clays | | ML | Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity |
| | | | CL | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays |
| | | | OL | Organic silts and organic silty clays of low plasticity |
| | Silts and Clays | | MH | Inorganic silts, micaceous or diatomaceous fine sand or silty soils |
| | | | CH | Inorganic clays of high plasticity |
| | | | OH | Organic clays of medium to high plasticity, organic silts |
| Highly Organic Soils | | | PT | Peat, humus, swamp soils with high organic contents |

I:\0-Chevron\Templates, Forms and Procedures\Field Forms\Boring Logs\Boring Log Legend



CAMBRIA



Cambria Environmental Technology, Inc.
 2000 Opportunity Drive, Suite 110
 Roseville, CA 95678
 Telephone: 916.677.3407
 Fax: 916.677.3687

BORING/WELL LOG

| | | | |
|-----------------|----------------------------------|------------------------------------|--------------|
| CLIENT NAME | Chevron Environmental Management | BORING/WELL NAME | S-1 |
| JOB/SITE NAME | 21-1173 | DRILLING STARTED | 20-Nov-06 |
| LOCATION | 500 Grand Ave, Oakland, CA | DRILLING COMPLETED | 20-Nov-06 |
| PROJECT NUMBER | 61H-2049 | WELL DEVELOPMENT DATE (YIELD) | NA |
| DRILLER | Fisch Environmental | GROUND SURFACE ELEVATION | Not Surveyed |
| DRILLING METHOD | Hydraulic push | TOP OF CASING ELEVATION | Not Surveyed |
| BORING DIAMETER | 2" | SCREENED INTERVAL | NA |
| LOGGED BY | K. Hoey | DEPTH TO WATER (First Encountered) | NA |
| REVIEWED BY | D. Herzog, PG# 7211 | DEPTH TO WATER (Static) | NA |

REMARKS

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT DEPTH (ft bgs) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (ft bgs) | WELL DIAGRAM |
|-----------|-------------|-----------|-----------------------|----------|-------------|--|------------------------|--------------|
| 581 | | S-1 | | | | Fill | 0.5 | |
| | | | | MH | | SILT: dark grey; dry; hard; 70% silt, 25% clay, 5% sand; medium plasticity; moderate estimated permeability. | 2.0 | |
| | | | | MH | | SILT with sand: dark grey; moist; 60% silt, 20% clay, 20% sand; medium plasticity; moderate estimated permeability. | 3.0 | |
| | | | | CH | | CLAY: green-grey; moist; soft; 50% clay, 30% silt, 20% sand; high plasticity; low estimated permeability. | 4.0 | |

WELL LOG (PID) R:\21-117-2\GINT\21-1173 GINT.GPJ DEFAULT.GDT 2/28/07



Cambria Environmental Technology, Inc.
 2000 Opportunity Dr. Suite 110
 Roseville, CA
 Telephone: 916.677.3407
 Fax: 916.677.3687

BORING/WELL LOG

| | | | |
|-----------------|----------------------------------|------------------------------------|--------------|
| CLIENT NAME | Chevron Environmental Management | BORING/WELL NAME | S-2 |
| JOB/SITE NAME | 21-1173 | DRILLING STARTED | 20-Nov-06 |
| LOCATION | 500 Grand Ave, Oakland, CA | DRILLING COMPLETED | 20-Nov-06 |
| PROJECT NUMBER | 61H-2049 | WELL DEVELOPMENT DATE (YIELD) | NA |
| DRILLER | Fisch Environmental | GROUND SURFACE ELEVATION | Not Surveyed |
| DRILLING METHOD | Hydraulic push | TOP OF CASING ELEVATION | Not Surveyed |
| BORING DIAMETER | 2" | SCREENED INTERVAL | NA |
| LOGGED BY | K. Hoey | DEPTH TO WATER (First Encountered) | NA |
| REVIEWED BY | D. Herzog, PG# 7211 | DEPTH TO WATER (Static) | NA |
| REMARKS | | | |

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (ft bgs) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (ft bgs) | WELL DIAGRAM |
|-----------|-------------|-----------|--------|----------------|----------|-------------|--|------------------------|-------------------------|
| 1257 | | S-2 | | | | | Fill | 0.5 | |
| | | | | ML | | | SILT with sand ; brown-grey; dry; 75% silt, 25% sand; medium plasticity; high estimated permeability. | 1.5 | |
| | | | | ML | | | SILT with sand ; brown-grey; dry; 65% silt, 20% sand, 15% clay; medium plasticity; moderate estimated permeability. | 2.0 | |
| | | | | ML | | | SILT ; brown-grey; moist; 65% silt, 25% clay, 10% sand; medium plasticity; moderate estimated permeability. | 4.0 | |
| | | | | | | | | | Bottom of Boring @ 4 ft |

WELL LOG (PID) R:\21-1173 OAKLAND\GINT\21-1173 SINT.GPJ DEFAULT.GDT 2/8/07



Cambria Environmental Technology, Inc.
 2000 Opportunity Dr. Suite 110
 Roseville, CA
 Telephone: 916.677.3407
 Fax: 916.677.3687

BORING/WELL LOG

| | | | |
|-----------------|----------------------------------|------------------------------------|--------------|
| CLIENT NAME | Chevron Environmental Management | BORING/WELL NAME | S-3 |
| JOB/SITE NAME | 21-1173 | DRILLING STARTED | 20-Nov-06 |
| LOCATION | 500 Grand Ave, Oakland, CA | DRILLING COMPLETED | 20-Nov-06 |
| PROJECT NUMBER | 61H-2049 | WELL DEVELOPMENT DATE (YIELD) | NA |
| DRILLER | Fisch Environmental | GROUND SURFACE ELEVATION | Not Surveyed |
| DRILLING METHOD | Hydraulic push | TOP OF CASING ELEVATION | Not Surveyed |
| BORING DIAMETER | 2" | SCREENED INTERVAL | NA |
| LOGGED BY | K. Hoey | DEPTH TO WATER (First Encountered) | NA |
| REVIEWED BY | D. Herzog, PG# 7211 | DEPTH TO WATER (Static) | NA |

REMARKS

| PID (ppm) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (ft bgs) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (ft bgs) | WELL DIAGRAM |
|-----------|-------------|-----------|--------|----------------|----------|-------------|--|------------------------|---|
| 0.0 | | S-3 | | | | | FILL: grey; wet; 45% gravel 20% clay, 25% sand, 10% silt. | 4.0 | ← Portland Type I/II Bottom of Boring @ 4 ft |

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 11/15/2006 By jamesy

Permit Numbers: W2006-0963
Permits Valid from 11/20/2006 to 11/21/2006

Application Id: 1163527441992
Site Location: 500 Grand Avenue, Oakland, CA 94610
Project Start Date: 11/20/2006

City of Project Site:Oakland
Completion Date:11/21/2006

Applicant: Cambria - John Bostick
2000 Opportunity Dr. #110, Roseville, CA 95678

Phone: 916-677-3407

Property Owner: Brad Howard
516 Grand Avenue, Oakland, CA 94610

Phone: --

Client: ** same as Property Owner **

Receipt Number: WR2006-0516 Total Due: \$200.00
Total Amount Paid: \$200.00
Payer Name : Cambria Environmental Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 6 Boreholes
Driller: Fisch Exploration - Lic #: 683865 - Method: DP

Work Total: \$200.00

Specifications

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---------------|------------|------------|-------------|-----------|-----------|
| W2006-0963 | 11/15/2006 | 02/18/2007 | 6 | 3.00 in. | 4.00 ft |

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
7. No Inspector Assigned to this site.

Alameda County Public Works Agency - Water Resources Well Permit

Applicant shall contact this office by email at wells@acpwa.org and certify in writing that work was completed and according to County Standards within 5 working days after the completion of work.

ATTACHMENT C

Standard Field Procedures for Hand-Auger Soil Borings and Soil and Soil Vapor Sampling

Cambria

STANDARD FIELD PROCEDURES SOIL VAPOR SAMPLING DIRECT PUSH AND VAPOR POINT METHODS

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

Objectives

Soil vapor samples are collected and analyzed to assess whether vapor-phase subsurface contaminants pose a threat to human health or the environment.

Direct Push Method for Soil Vapor Sampling

The direct push method for soil vapor sampling uses a hollow vapor probe, which is pushed into the ground, rather than augured, and the stratigraphy forms a vapor seal between the surface and subsurface environments ensuring that the surface and subsurface gases do not mix. Once the desired soil vapor sampling depth has been reached, the field technician installs disposable polyethylene tubing with a threaded adapter that screw into the bottom of the rods. The screw adapter ensures that the vapor sample comes directly from the bottom of the drill rods and does not mix with other vapor from inside the rod or from the ground surface. In addition, hydrated bentonite is placed around the sampling rod and the annulus of the boring to prevent ambient air from entering the boring. The operator then pulls up on the rods and exposes the desired stratigraphy by leaving an expendable drive point at the maximum depth. The required volume of soil vapor is then purged through the polyethylene tubing using a standard vacuum pump. The soil vapor can be sampled for direct injection into a field gas chromatograph, pumped into inert tedlar bags using a "bell jar" sampling device, or allowed to enter a Summa vacuum canister. Once collected, the vapor sample is transported under chain-of-custody to a state-certified laboratory. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure. Drilling and sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent. Once the sampling is completed, the borings are filled to the ground surface with neat cement.

Shallow Soil Vapor Point Method for Soil Vapor Sampling

The shallow soil vapor point method for soil vapor sampling utilizes a hand augur or drill rig to advance a boring for the installation of a soil vapor sampling point. Once the boring is hand augured to the final depth, a half foot of number 2/16 filter sand is placed at the base of the boring (Figure A). One, 1/4-inch inner-diameter nylon tube of known length is placed into the boring. The tube is fitted with a stainless steel screen and barbed brass fitting to prevent sand from clogging the tube and is capped at the top with another barbed brass fitting. Another half foot of number 2/16 filter sand is placed above the bottom of the tubing creating a one foot zone of filter sand with the end of the tubing in the middle. A 2-inch layer of unhydrated bentonite chips is placed on top of the filter pack. Next pre-hydrated granular bentonite is then poured into the hole to approximately 0.5 fbg. Another 2-inch layer of unhydrated bentonite chips is placed on top of the hydrated bentonite. The tube is coiled and placed within a wellbox finished flush to the surface. Soil vapor samples will be collected no sooner than one week after installation of the soil-vapor points to allow adequate time for representative soil vapors to accumulate. Soil vapor sample collection will not be scheduled until after a minimum of

Cambria

three consecutive precipitation-free days and irrigation onsite has ceased. Figure B shows the soil vapor sampling apparatus. A measured volume of air will be purged from the tubing using a vacuum pump and a tedlar bag. Immediately after purging, soil-vapor samples will be collected using the appropriate size Summa canister with attached flow regulator and sediment filter. The soil-vapor points will be preserved until they are no longer needed for risk evaluation purposes. At that time, they will be destroyed by extracting the tubing, hand augering to remove the sand and bentonite, and backfilling the boring with neat cement. The boring will be patched with asphalt or concrete, as appropriate.

Vapor Sample Storage, Handling, and Transport

Samples are stored and transported under chain-of-custody to a state-certified analytic laboratory. Samples should never be cooled due to the possibility of condensation within the canister.

ATTACHMENT D

Analytical Soil Sample Results

ANALYTICAL RESULTS

Prepared for:

Chevron c/o Cambria
Suite 110
2000 Opportunity Drive
Roseville CA 95678

916-677-3407

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1015312. Samples arrived at the laboratory on Wednesday, November 22, 2006. The PO# for this group is 211173 and the release number is MTI.

| <u>Client Description</u> | | <u>Lancaster Labs Number</u> |
|---------------------------|-----------|------------------------------|
| S-1-S-4-061120 | Grab Soil | 4922589 |
| S-2-S-4-061120 | Grab Soil | 4922590 |
| S-3-S-4-061120 | Grab Soil | 4922591 |

ELECTRONIC COPY TO
ELECTRONIC COPY TO

Cambria Environmental
Cambria Environmental

Attn: David Herzog
Attn: Jami Shaffer

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,



Marla S. Lord
Senior Specialist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. SW 4922589

S-1-S-4-061120 Grab Soil
 Facility# 211173 MTI# 61H-2049 CETR
 500 Grand-Oakland T0600101355 S-1
 Collected: 11/20/2006 11:15 by JB Account Number: 11997

Submitted: 11/22/2006 10:30 Chevron c/o Cambria
 Reported: 12/11/2006 at 15:14 Suite 110
 Discard: 01/11/2007 2000 Opportunity Drive
 Roseville CA 95678

S1461

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|---------------------------------------|-------|-----------------|
| 01725 | TPH-GRO - Soils | n.a. | 390. | 20. | mg/kg | 500 |
| | The analysis for volatiles was performed on a sample which was preserved in methanol. Therefore, the reporting limits were raised. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 05547 | TPH - DRO (Soils) | n.a. | 15. | 10. | mg/kg | 1 |
| 02446 | TPH (gravimetric) | n.a. | N.D. | 330. | mg/kg | 1 |
| 07360 | BTEX+MTBE by 8260B | | | | | |
| 05460 | Benzene | 71-43-2 | N.D. | 0.062 | mg/kg | 123.76 |
| 05466 | Toluene | 108-88-3 | N.D. | 0.12 | mg/kg | 123.76 |
| 05474 | Ethylbenzene | 100-41-4 | 0.90 | 0.12 | mg/kg | 123.76 |
| 06301 | Xylene (Total) | 1330-20-7 | 1.9 | 0.12 | mg/kg | 123.76 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-------------------------------|--------------------------|--------|------------------------|------------------|-----------------|
| 01725 | TPH-GRO - Soils | TPH GRO SW-846 8015B mod | 1 | 11/27/2006 05:22 | Linda C Pape | 500 |
| 05547 | TPH - DRO (Soils) | SW-846 8015B | 1 | 11/28/2006 03:43 | Tracy A Cole | 1 |
| 02446 | TPH (gravimetric) | SM19 5520 D/E/F | 1 | 12/07/2006 07:30 | Michelle L Lalli | 1 |
| 07360 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 11/28/2006 11:27 | Kerri E Koch | 123.76 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 11/28/2006 05:20 | Seth J Good | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 11/24/2006 08:45 | Larry E Bevins | n.a. |
| 07024 | DRO Alternate Soil Extraction | SW-846 3550B | 1 | 11/27/2006 10:00 | Olivia Arosemena | 1 |

Lancaster Laboratories Sample No. SW 4922590

 S-2-S-4-061120 Grab Soil
 Facility# 211173 MTI# 61H-2049 CETR
 500 Grand-Oakland T0600101355 S-2
 Collected: 11/20/2006 13:05 by JB

Account Number: 11997

 Submitted: 11/22/2006 10:30
 Reported: 12/11/2006 at 15:14
 Discard: 01/11/2007

 Chevron c/o Cambria
 Suite 110
 2000 Opportunity Drive
 Roseville CA 95678

S2461

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received | | Dilution Factor |
|---------|--|------------|--------------------|-------------------------|-------|-----------------|
| | | | | Method | Units | |
| 01725 | TPH-GRO - Soils | n.a. | 3,800. | Detection Limit 800. | mg/kg | 20000 |
| | The analysis for volatiles was performed on a sample which was preserved in methanol. Therefore, the reporting limits were raised. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 05547 | TPH - DRO (Soils) | n.a. | 580. | 100. | mg/kg | 10 |
| 02446 | TPH (gravimetric) | n.a. | N.D. | 330. | mg/kg | 1 |
| 07360 | BTEX+MTBE by 8260B | | | | | |
| 05460 | Benzene | 71-43-2 | 0.41 | 0.063 | mg/kg | 125 |
| 05466 | Toluene | 108-88-3 | 17. | 0.13 | mg/kg | 125 |
| 05474 | Ethylbenzene | 100-41-4 | 36. | 0.13 | mg/kg | 125 |
| 06301 | Xylene (Total) | 1330-20-7 | 170. | 0.25 | mg/kg | 250 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis | | Analyst | Dilution Factor |
|---------|-------------------------------|--------------------------|--------|------------|-------|------------------|-----------------|
| | | | | Date | Time | | |
| 01725 | TPH-GRO - Soils | TPH GRO SW-846 8015B mod | 1 | 11/27/2006 | 05:58 | Linda C Pape | 20000 |
| 05547 | TPH - DRO (Soils) | SW-846 8015B | 2 | 11/28/2006 | 16:26 | Tracy A Cole | 10 |
| 02446 | TPH (gravimetric) | SM19 5520 D/E/F | 1 | 12/07/2006 | 07:30 | Michelle L Lalli | 1 |
| 07360 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 11/28/2006 | 20:02 | Kerri E Koch | 250 |
| 07360 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 11/29/2006 | 05:14 | Seth J Good | 125 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 11/28/2006 | 05:21 | Seth J Good | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 11/24/2006 | 08:40 | Larry E Bevins | n.a. |
| 07024 | DRO Alternate Soil Extraction | SW-846 3550B | 1 | 11/27/2006 | 10:00 | Olivia Arosemena | 1 |

Lancaster Laboratories Sample No. SW 4922591

 S-3-S-4-061120 Grab Soil
 Facility# 211173 MTI# 61H-2049 CETR
 500 Grand-Oakland T0600101355 S-3
 Collected: 11/20/2006 14:10 by JB

Account Number: 11997

 Submitted: 11/22/2006 10:30
 Reported: 12/11/2006 at 15:14
 Discard: 01/11/2007

 Chevron c/o Cambria
 Suite 110
 2000 Opportunity Drive
 Roseville CA 95678

S3461

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|---|------------|--------------------|------------------------------------|-------|-----------------|
| 01725 | TPH-GRO - Soils The analysis for volatiles was performed on a sample which was preserved in methanol. Therefore, the reporting limits were raised. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | n.a. | N.D. | 1.0 | mg/kg | 25 |
| 05547 | TPH - DRO (Soils) | n.a. | 11. | 10. | mg/kg | 1 |
| 02446 | TPH (gravimetric) | n.a. | N.D. | 330. | mg/kg | 1 |
| 07360 | BTEX+MTBE by 8260B | | | | | |
| 05460 | Benzene | 71-43-2 | N.D. | 0.0005 | mg/kg | 0.99 |
| 05466 | Toluene | 108-88-3 | N.D. | 0.001 | mg/kg | 0.99 |
| 05474 | Ethylbenzene | 100-41-4 | N.D. | 0.001 | mg/kg | 0.99 |
| 06301 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | mg/kg | 0.99 |

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-------------------------------|--------------------------|--------|------------------------|------------------|-----------------|
| 01725 | TPH-GRO - Soils | TPH GRO SW-846 8015B mod | 1 | 11/27/2006 07:13 | Linda C Pape | 25 |
| 05547 | TPH - DRO (Soils) | SW-846 8015B | 1 | 11/28/2006 05:11 | Tracy A Cole | 1 |
| 02446 | TPH (gravimetric) | SM19 5520 D/E/F | 1 | 12/07/2006 07:30 | Michelle L Lalli | 1 |
| 07360 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 11/28/2006 13:57 | Emiley A King | 0.99 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 11/28/2006 10:02 | Emiley A King | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 11/24/2006 08:35 | Larry E Bevins | n.a. |
| 07024 | DRO Alternate Soil Extraction | SW-846 3550B | 1 | 11/27/2006 10:00 | Olivia Arosemena | 1 |

Quality Control Summary

 Client Name: Chevron c/o Cambria
 Reported: 12/11/06 at 03:14 PM

Group Number: 1015312

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| <u>Analysis Name</u> | <u>Blank Result</u> | <u>Blank MDL</u> | <u>Report Units</u> | <u>LCS %REC</u> | <u>LCSD %REC</u> | <u>LCS/LCSD Limits</u> | <u>RPD</u> | <u>RPD Max</u> |
|---|---------------------|------------------|---------------------|-----------------|------------------|------------------------|------------|----------------|
| Batch number: 06318A31D TPH-GRO - Soils | N.D. | 1.0 | mg/kg | 86 | | 67-119 | | |
| Batch number: 063290007A TPH - DRO (Soils) | N.D. | 10. | mg/kg | 85 | | 53-120 | | |
| Batch number: 06341244601A TPH (gravimetric) | N.D. | 330. | mg/kg | 95 | | 89-107 | | |
| Batch number: A063312AC Benzene | N.D. | 0.5 | ug/kg | 96 | | 77-119 | | |
| Toluene | N.D. | 1. | ug/kg | 89 | | 81-116 | | |
| Ethylbenzene | N.D. | 1. | ug/kg | 97 | | 82-115 | | |
| Xylene (Total) | N.D. | 1. | ug/kg | 98 | | 82-117 | | |
| Batch number: Q063321AA Benzene | N.D. | 63. | ug/kg | 96 | | 77-119 | | |
| Toluene | N.D. | 130. | ug/kg | 93 | | 81-116 | | |
| Ethylbenzene | N.D. | 130. | ug/kg | 87 | | 82-115 | | |
| Xylene (Total) | N.D. | 130. | ug/kg | 90 | | 82-117 | | |
| Batch number: Q063321AB Benzene | N.D. | 63. | ug/kg | 96 | | 77-119 | | |
| Toluene | N.D. | 130. | ug/kg | 93 | | 81-116 | | |
| Ethylbenzene | N.D. | 130. | ug/kg | 87 | | 82-115 | | |

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

| <u>Analysis Name</u> | <u>MS %REC</u> | <u>MSD %REC</u> | <u>MS/MSD Limits</u> | <u>RPD</u> | <u>RPD MAX</u> | <u>BKG Conc</u> | <u>DUP Conc</u> | <u>DUP RPD</u> | <u>Dup RPD Max</u> |
|---|----------------|-----------------|----------------------|------------|----------------|-----------------|-----------------|----------------|--------------------|
| Batch number: 06318A31D TPH-GRO - Soils | 77 | 72 | 39-118 | 6 | 30 | | | | |
| Batch number: 063290007A TPH - DRO (Soils) | 97 | 97 | 21-136 | 1 | 20 | | | | |
| Batch number: 06341244601A TPH (gravimetric) | 92 | 93 | 73-103 | 1 | 20 | N.D. | N.D. | 200* (1) | 20 |
| Batch number: A063312AC Benzene | 86 | 84 | 59-120 | 3 | 30 | | | | |
| Toluene | 82 | 74 | 52-121 | 8 | 30 | | | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o Cambria
 Reported: 12/11/06 at 03:14 PM

Group Number: 1015312

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|------------|-------------|------------------|-----|------------|-------------|-------------|------------|----------------|
| Ethylbenzene | 89 | 80 | 54-116 | 9 | 30 | | | | |
| Xylene (Total) | 97 | 83 | 44-127 | 12 | 30 | | | | |
| Batch number: Q063321AA Sample number(s): 4922589-4922590 UNSPK: P922980 | | | | | | | | | |
| Benzene | 95 | 100 | 59-120 | 5 | 30 | | | | |
| Toluene | 114 | 106 | 52-121 | 7 | 30 | | | | |
| Ethylbenzene | 166* | 120* | 54-116 | 23 | 30 | | | | |
| Xylene (Total) | 268* | 151* | 44-127 | 29 | 30 | | | | |
| Batch number: Q063321AB Sample number(s): 4922590 UNSPK: P922980 | | | | | | | | | |
| Benzene | 95 | 100 | 59-120 | 5 | 30 | | | | |
| Toluene | 114 | 106 | 52-121 | 7 | 30 | | | | |
| Ethylbenzene | 166* | 120* | 54-116 | 23 | 30 | | | | |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: TPH-GRO - Soils
 Batch number: 06318A31D
 Trifluorotoluene-F

| | |
|---------|-----|
| 4922589 | 23* |
| 4922590 | 2* |
| 4922591 | 84 |
| Blank | 80 |
| LCS | 90 |
| MS | 118 |
| MSD | 114 |

Limits: 61-122

 Analysis Name: TPH - DRO (Soils)
 Batch number: 063290007A
 Orthoterphenyl

| | |
|---------|-----|
| 4922589 | 69 |
| 4922590 | 101 |
| 4922591 | 97 |
| Blank | 97 |
| LCS | 105 |
| MS | 97 |
| MSD | 100 |

Limits: 41-128

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: A063312AC
 Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

 Client Name: Chevron c/o Cambria
 Reported: 12/11/06 at 03:14 PM

Group Number: 1015312

Surrogate Quality Control

| | | | | |
|-----------------------------------|----------------------|-----------------------|------------|----------------------|
| 4922591 | 95 | 84 | 92 | 66* |
| Blank | 95 | 85 | 83 | 77 |
| LCS | 93 | 86 | 86 | 80 |
| MS | 95 | 84 | 90 | 75 |
| MSD | 93 | 84 | 89 | 76 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |
| Analysis Name: BTEX+MTBE by 8260B | | | | |
| Batch number: Q063321AA | | | | |
| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 4922589 | 93 | 97 | 90 | 87 |
| Blank | 99 | 102 | 96 | 86 |
| LCS | 96 | 101 | 94 | 90 |
| MS | 94 | 100 | 92 | 90 |
| MSD | 99 | 104 | 96 | 93 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |
| Analysis Name: BTEX+MTBE by 8260B | | | | |
| Batch number: Q063321AB | | | | |
| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
| 4922590 | 94 | 98 | 95 | 98 |
| Blank | 99 | 103 | 94 | 84 |
| LCS | 96 | 101 | 94 | 90 |
| MS | 94 | 100 | 92 | 90 |
| MSD | 99 | 104 | 96 | 93 |
| Limits: | 71-114 | 70-109 | 70-123 | 70-111 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11997 Sample #: 4922589-9 SCR#: _____
COP #1015312 244431

MTI # 61H-2049

Facility #: 21-1173
 Site Address: 500 GRAND AVE, OAKLAND, CA
 Chevron PM: DANA THURMAN Lead Consultant: CAMBRIA
 Consultant/Office: ROSEVILLE
 Consultant Prj. Mgr.: DAVID HERZOG
 Consultant Phone #: (916) 677 3407 Fax #: (916) 677 3684
 Sampler: JOHN BOSTICK
 Service Order #: _____ Non SAR: _____

Analyses Requested

| Preservation Codes | |
|--|--|
| <input type="checkbox"/> BTEX + MRE 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO <input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup <input type="checkbox"/> 8260 full scan <input type="checkbox"/> Oxygenates <input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421 <input checked="" type="checkbox"/> TRPH 0.1% Grosser 16001A method 5520 per D. Herceg, A. Miller 11/27/06 | |

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy's on highest hit
 Run ___ oxy's on all hits

| Field Point Name | Matrix | Repeat Sample | Top Depth | Year Month Day | Time Collected | New Field Pt. | Grab | Composite | Total Number of Containers | BTEX + MRE 8260 | TPH 8015 MOD GRO | TPH 8015 MOD DRO | Silica Gel Cleanup | 8260 full scan | Oxygenates | Lead 7420 | 7421 | TRPH 0.1% Grosser 16001A |
|------------------|--------|---------------|-----------|----------------|----------------|---------------|------|-----------|----------------------------|-----------------|------------------|------------------|--------------------|----------------|------------|-----------|------|--------------------------|
| S-104 | S | - | 3.5 | 06 11 20 | 1115 | y | X | | 1 | X | X | X | | | | | | X |
| S-204 | S | - | 3.5 | 06 11 20 | 1305 | y | X | | 1 | X | X | X | | | | | | X |
| S-304 | S | - | 3.5 | 06 11 20 | 1410 | y | X | | 1 | X | X | X | | | | | | X |

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
 (STD. TAT) 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

| | | | | | |
|--------------------------------------|------------------------------|------|----------------------------------|------------|------|
| Relinquished by: <u>John Bostick</u> | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| Relinquished by Commercial Carrier: | UPS <u>FedEx</u> Other _____ | | Received by: <u>John Bostick</u> | Date | Time |
| Temperature Upon Receipt | <u>20</u> °C | | Custody Seals intact? | <u>Yes</u> | No |

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|------------------------|--|
| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| C | degrees Celsius | F | degrees Fahrenheit |
| Cal | (diet) calories | lb. | pound(s) |
| meq | milliequivalents | kg | kilogram(s) |
| g | gram(s) | mg | milligram(s) |
| ug | microgram(s) | l | liter(s) |
| ml | milliliter(s) | ul | microliter(s) |
| m3 | cubic meter(s) | fib >5 um/ml | fibers greater than 5 microns in length per ml |
| < | less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| ppm | parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. | | |

U.S. EPA data qualifiers:

| Organic Qualifiers | Inorganic Qualifiers |
|---|--|
| A TIC is a possible aldol-condensation product | B Value is <CRDL, but ≥IDL |
| B Analyte was also detected in the blank | E Estimated due to interference |
| C Pesticide result confirmed by GC/MS | M Duplicate injection precision not met |
| D Compound quantitated on a diluted sample | N Spike amount not within control limits |
| E Concentration exceeds the calibration range of the instrument | S Method of standard additions (MSA) used for calculation |
| J Estimated value | U Compound was not detected |
| N Presumptive evidence of a compound (TICs only) | W Post digestion spike out of control limits |
| P Concentration difference between primary and confirmation columns >25% | * Duplicate analysis not within control limits |
| U Compound was not detected | + Correlation coefficient for MSA <0.995 |
| X,Y,Z Defined in case narrative | |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.

ATTACHMENT E

Analytical Soil Vapor Sample Results



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

**(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0611513

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. John Bostick Cambria Environmental Technology, Inc. 2000 Opportunity Dr. Suite 110 Roseville, CA 95678 916-677-3407 x107 | BILL TO: | Mr. John Bostick Cambria Environmental Technology, Inc. 2000 Opportunity Dr. Suite 110 Roseville, CA 95678 |
| PHONE: | | P.O. # | |
| FAX: | 916-677-3687 | PROJECT # | 61H-2049 21-1173 MTI |
| DATE RECEIVED: | 11/22/2006 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 12/08/2006 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> |
|-------------------|----------------|---------------|-------------------------------|
| 01A | SV-1 | Modified TO-3 | 8.0 "Hg |
| 02A | SV-2 | Modified TO-3 | 9.0 "Hg |
| 03A | SV-2 Duplicate | Modified TO-3 | 5.5 "Hg |
| 04A(cancelled) | SV-3 | Modified TO-3 | |
| 05A(cancelled) | Purge | Modified TO-3 | |
| 06A | Lab Blank | Modified TO-3 | NA |
| 07A | LCS | Modified TO-3 | NA |
| 07B | LCS | Modified TO-3 | NA |

CERTIFIED BY: *Sinda D. Fummar*

DATE: 12/08/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-3 (Gas range)
Cambria Environmental Technology
Workorder# 0611513

Five 6 Liter Summa Canister samples were received on November 22, 2006. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline and correspond to the range of hydrocarbons from C5 to C10. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

| <i>Requirement</i> | <i>TO-3</i> | <i>ATL Modifications</i> |
|--------------------------------------|---|---|
| Daily Calibration Standard Frequency | Prior to sample analysis and every 4 - 6 hrs | Prior to sample analysis and after the analytical batch <=/= 20 samples |
| Initial Calibration Calculation | 4-point calibration using a linear regression model | 5-point calibration using average Response Factor |
| Initial Calibration Frequency | Weekly | When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation |
| Moisture Control | Nafion system | Sorbent system |
| Minimum Detection Limit (MDL) | Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard | 40 CFR Pt. 136 App. B |
| Preparation of Standards | Levels achieved through dilution of gas mixture | Levels achieved through loading various volumes of the gas mixture |

Receiving Notes

Samples SV-3 and Purge was cancelled per client's request.

The Chain of Custody incorrect method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

There were no analytical discrepancies.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID**

Client Sample ID: SV-1

Lab ID#: 0611513-01A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Benzene | 0.0049 | 0.016 | 1.1 | 3.4 |
| Toluene | 0.0049 | 0.018 | 0.089 | 0.33 |
| Ethyl Benzene | 0.0049 | 0.021 | 0.60 | 2.6 |
| Total Xylenes | 0.0049 | 0.021 | 0.087 | 0.38 |
| TPH (Gasoline Range) | 0.12 | 0.50 | 14 | 60 |

Client Sample ID: SV-2

Lab ID#: 0611513-02A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Benzene | 0.15 | 0.49 | 11 M | 34 M |
| Toluene | 0.15 | 0.58 | 43 | 160 |
| Ethyl Benzene | 0.15 | 0.66 | 15 | 64 |
| Total Xylenes | 0.15 | 0.66 | 66 | 280 |
| TPH (Gasoline Range) | 3.8 | 16 | 490 | 2000 |

Client Sample ID: SV-2 Duplicate

Lab ID#: 0611513-03A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| Benzene | 0.066 | 0.21 | 4.2 | 14 |
| Toluene | 0.066 | 0.25 | 18 | 69 |
| Ethyl Benzene | 0.066 | 0.28 | 6.2 | 27 |
| Total Xylenes | 0.066 | 0.28 | 26 | 110 |
| TPH (Gasoline Range) | 1.6 | 6.7 | 180 | 720 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-1

Lab ID#: 0611513-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d120508 | Date of Collection: | 11/20/06 |
| Dil. Factor: | 4.88 | Date of Analysis: | 12/5/06 10:54 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| Benzene | 0.0049 | 0.016 | 1.1 | 3.4 |
| Toluene | 0.0049 | 0.018 | 0.089 | 0.33 |
| Ethyl Benzene | 0.0049 | 0.021 | 0.60 | 2.6 |
| Total Xylenes | 0.0049 | 0.021 | 0.087 | 0.38 |
| TPH (Gasoline Range) | 0.12 | 0.50 | 14 | 60 |

Container Type: 6 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 130 | 75-150 |
| Fluorobenzene (PID) | 122 | 75-125 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-2

Lab ID#: 0611513-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d120505 | Date of Collection: | 11/20/06 |
| Dil. Factor: | 153 | Date of Analysis: | 12/5/06 08:58 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| Benzene | 0.15 | 0.49 | 11 M | 34 M |
| Toluene | 0.15 | 0.58 | 43 | 160 |
| Ethyl Benzene | 0.15 | 0.66 | 15 | 64 |
| Total Xylenes | 0.15 | 0.66 | 66 | 280 |
| TPH (Gasoline Range) | 3.8 | 16 | 490 | 2000 |

M = Reported value may be biased due to apparent matrix interferences.

Container Type: 6 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 108 | 75-150 |
| Fluorobenzene (PID) | 114 | 75-125 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-2 Duplicate

Lab ID#: 0611513-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d120506 | Date of Collection: | 11/20/06 |
| Dil. Factor: | 65.6 | Date of Analysis: | 12/5/06 09:38 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| Benzene | 0.066 | 0.21 | 4.2 | 14 |
| Toluene | 0.066 | 0.25 | 18 | 69 |
| Ethyl Benzene | 0.066 | 0.28 | 6.2 | 27 |
| Total Xylenes | 0.066 | 0.28 | 26 | 110 |
| TPH (Gasoline Range) | 1.6 | 6.7 | 180 | 720 |

Container Type: 6 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 104 | 75-150 |
| Fluorobenzene (PID) | 104 | 75-125 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0611513-06A

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d120504 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 12/5/06 08:21 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| Benzene | 0.0010 | 0.0032 | Not Detected | Not Detected |
| Toluene | 0.0010 | 0.0038 | Not Detected | Not Detected |
| Ethyl Benzene | 0.0010 | 0.0043 | Not Detected | Not Detected |
| Total Xylenes | 0.0010 | 0.0043 | Not Detected | Not Detected |
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 92 | 75-150 |
| Fluorobenzene (PID) | 103 | 75-125 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0611513-07A

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | |
|--------------|----------|------------------------------------|
| File Name: | d120527b | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/5/06 11:20 PM |

| Compound | %Recovery |
|---------------|-----------|
| Benzene | 100 |
| Toluene | 100 |
| Ethyl Benzene | 96 |
| Total Xylenes | 90 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (PID) | 102 | 75-125 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0611513-07B

MODIFIED EPA METHOD TO-3 GC/PID/FID

| | | |
|--------------|----------|------------------------------------|
| File Name: | d:120525 | Date of Collection: NA |
| Dil. Factor: | 1:00 | Date of Analysis: 12/5/06 10:07 PM |

| Compound | | %Recovery |
|-------------------------------------|-----------|---------------|
| TPH (Gasoline Range) | | 95 |
| Container Type: NA - Not Applicable | | |
| Surrogates | %Recovery | Method Limits |
| Fluorobenzene (FID) | 96 | 75-150 |



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Contact Person John Bastick
Company Campria Environmental Email jbastick@campria.com
Address 2000 Eppichard Dr City Rossmore State CA Zip 95678
Phone 916 677 3427 Fax 916 677 3687
Collected by: (Signature) John Bastick

| | |
|--|---|
| Project Info: | Turn Around Time: <small>Lab Use Only</small> |
| P.O. # _____ | Pressurized by: <u>BS</u> |
| Project # <u>161R-2019</u> | Date: <u>11/30/06</u> |
| Project Name <u>21-1173 MTE</u> | Pressurization Gas: <u>(N) He</u> |
| <input checked="" type="checkbox"/> Normal | <small>specify</small> |
| <input type="checkbox"/> Rush | |

| Lab I.D. | Field Sample I.D. (Location) | Can# | Date | Time | Analyses Requested | Canister Pressure/Vacuum | | | |
|------------|------------------------------|--------------|-----------------|-------------|-------------------------------------|--------------------------|-----------|----------------|---------------|
| | | | | | | Initial | Final | Receipt | Final PSI |
| <u>01A</u> | <u>SV-1</u> | <u>33929</u> | <u>11/30/06</u> | <u>1109</u> | <u>TPHg and BTEX (TO-15)</u> | <u>27</u> | <u>7</u> | <u>9:07 AM</u> | <u>50 PSI</u> |
| <u>02A</u> | <u>SV-2</u> | <u>30416</u> | | <u>1217</u> | | <u>30</u> | <u>8</u> | <u>9:07 AM</u> | |
| <u>03A</u> | <u>SV-2-Duplicate</u> | <u>9580</u> | | <u>1259</u> | | <u>30</u> | <u>6</u> | <u>9:07 AM</u> | |
| <u>04A</u> | <u>SV-3</u> | <u>4268</u> | | <u>1405</u> | <u>Do not analyze this canister</u> | <u>28</u> | <u>20</u> | | |
| <u>05A</u> | <u>Purge</u> | <u>33788</u> | | | <u>Do not analyze this canister</u> | | | | |

| | | |
|---|--|--------|
| Relinquished by: (signature) <u>John Bastick</u> Date/Time <u>11/30/06 1700</u> | Received by: (signature) <u>Monica Green</u> Date/Time <u>11/30/06 815</u> | Notes: |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|---------------------------|--------------------------------|---------------------|-----------------------|---|-----------------------------|
| Lab Use Only | Shipper Name <u>FedEx</u> | Air Bill # <u>858167573812</u> | Temp (°C) <u>NA</u> | Condition <u>Good</u> | Customer Seals Intact? <u>Yes No None</u> | Work Order # <u>0611513</u> |
|--------------|---------------------------|--------------------------------|---------------------|-----------------------|---|-----------------------------|