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Environmental Health

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October 4, 2007

Mr. Jerry Wickham, P.G. Alameda County Environmental Health Care Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Soil Vapor Sampling Report

Chiu Property 800 Franklin Street, Oakland, California 94607 Fuel Leak Case No. RO0000196 CRA Project No. 581000

Dear Mr. Wickham:

On behalf of Mr. Tommy Chiu, Conestoga-Rovers & Associates, Inc. (CRA) has prepared the following *Soil Vapor Sampling Report* for the above referenced site.

If you would like to discuss this document or the project, please contact Mark Jonas at 510/420-3307.

Sincerely,

Conestoga-Rovers & Associates, Inc.

Mark Jonas, P.G.

Senior Project Manager

Enclosure

cc: Mr. Tommy Chu, P.O. Box 28194, Oakland, California 94606



Soil Vapor Sampling Report Chiu Property, 800 Franklin Street, Oakland, California Fuel Leak Case No. RO0000196 October 4, 2007

SOIL VAPOR SAMPLING REPORT CHIU PROPERTY 800 FRANKLIN STREET OAKLAND, CALIFORNIA FUEL LEAK CASE NO. RO0000196

October 4, 2007

Prepared for:

Mr. Tommy Chiu P.O. Box 28194 Oakland, California 94604

Prepared by:

Conestoga-Rovers & Associates, Inc. 5900 Hollis Street, Suite A Emeryville, California 94608

CRA Project No. 581000

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Written by:

Christina McClelland

Staff Geologist

Reviewed By:

Mark Jonas, P.G.

Senior Project Geologist



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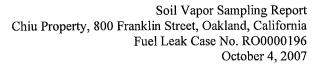




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SOIL VAPOR SAMPLING REPORT Chiu Property 800 Franklin Street, Oakland, California Fuel Leak Case No. R00000196

October 4, 2007

1.0 INTRODUCTION

On behalf of Mr. Tommy Chiu, Conestoga-Rovers & Associates, Inc. (CRA) has prepared the following *Soil Vapor Sampling Report* for the site located at 800 Franklin Street in Oakland, California. The site is referenced under Alameda County Environmental Health's (ACEH) Fuel Leak Case No. RO0000196. This document compiles soil gas sampling results presented in the February 23, 2007 *Site Assessment Report*, April 18, 2007 *Site Assessment Report*, and from the latest July 25, 2007 soil vapor sampling event. Regulatory correspondence is presented in Appendix A.

The scope of work includes soil vapor and soil assessment. Following is a brief discussion of the site background, environmental setting, previous studies, sampling procedures and results, a discussion of the results, conclusions, and recommendation.

2.0 SITE BACKGROUND

2.1. Site Description

The site is located in a commercial area at the eastern corner of the intersection of 8th and Franklin Streets in Oakland, California (Figure 1). Its elevation is approximately 35 feet above mean sea level (msl). The site presently has a two story commercial building that occupies the entire lot (Figure 2). Retail stores currently operate on the ground floor: Cathay Chinese Herb's Company, Pacific Seafood Inc., Kim Van Jewelry, and Phoung Jewelry. Commercial offices currently operate on the second floor: Express Tax Service, Trident Financial, Mekong Reality & Mortgage Inc., and Evergreen Travel. The site is bound by commercial properties to the northwest and southeast, 8th Street to the southwest, and Franklin Street to the northwest.

2.2. Historical Background Information

Prior to 1989 the site operated as a gasoline service station. It has been reported that up to five underground storage tanks (USTs) previously existed on site. One of these tanks is said to have been removed prior to 1988 near the vicinity of existing well MW-1. However, no UST removal

Soil Vapor Sampling Report Chiu Property, 800 Franklin Street, Oakland, California Fuel Leak Case No. RO0000196 October 4, 2007



documentation has been discovered regarding this UST. The other four USTs were reported to have been installed circa 1970 (MES, 1989a). In 1989, these four USTs were removed.

3.0 ENVIRONMENTAL SETTING

The site is located within the Coast Range geomorphic province of California. In general, the Coast Range province consists of Jurassic eugeosynclinal basement rocks and Cretaceous and Cenozoic sedimentary and volcanic rocks that have been faulted and folded with a northwest-southeast trend. The site lies within the East Bay Plain Subbasin. Sediments beneath the site consist of coalescing alluvial deposits from the Oakland-Berkeley Hills. According to the United States Geologic Survey (USGS) Professional Paper 943, the site is located on quaternary age alluvial deposits consisting of medium-grained, unconsolidated, moderately sorted, and permeable, fine sand, silt, and clayey silt with thin beds of coarse sand.

3.1. Geology

Subsurface soil consists of light brown to yellowish brown sand-silt mixture and a poorly grade sand to approximately 36 ft, the total depth explored. Some sand-clay mixtures were encountered beneath the building from approximately 2 to 6 ft bgs, and 15 to 18 ft bgs northwest of the site in boring MW-6.

Previous investigations for this site and boring logs obtained from Bay Area Rapid Transit District (BART) predominantly identified fine to medium grained sand beneath the site. These sand deposits occasionally have a clay component. Three borings were drilled for BART proximal to the site, to a maximum depth of 70 feet below ground surface (bgs). These boring logs consistently describe a low permeability, hard, silty clay from approximately 40 feet bgs to total depth explored. Appendix C presents the boring logs for soil vapor probe borings VP-1 and VP-2. Previous boring logs are provided in the July 24, 2006 Work Plan.

3.2. Hydrogeology

The site is located in the East Bay Plain Subbasin, Groundwater Basin No. 2-9.04 (DWR 2003). The East Bay Plain Subbasin is a northwest trending alluvial basin, bounded on the north by San Pablo Bay, on the east by the contact with Franciscan basement rock, and on the south by the Nile Cone Groundwater Basin. The East Bay Plain Subbasin extends beneath the San Francisco Bay to the west. The East Bay Plain Subbasin aquifer system consists of unconsolidated sediments of Quaternary age. In the project area most rainfall occurs between November and March. The average annual rainfall is approximately 23 inches.

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Throughout most of the East Bay Plain in the region of the site, water level contours show that the direction of groundwater flow is east to west, towards San Francisco Bay. Groundwater flow direction typically correlates to topography.

From 1860 to 1930 groundwater from the East Bay Plain was the major water supply of the East Bay, before Sierra water was imported into the area. By the late 1920's the groundwater supply was too small to meet the growing population and the wells often became contaminated by seepage or saltwater intrusion. By 1929, East Bay Municipal Utility District (EBMUD) provided imported water to East Bay communities via the Mokelumne Aqueduct. This high-quality, reliable supply soon eliminated the need for local groundwater wells. In 1996, the Regional Board reviewed General Plans for Oakland and other communities. They found that Oakland and most other cities did not have any plans to develop local groundwater resources for drinking water, due to existing or potential saltwater intrusion, contamination, or poor or limited quality (Regional Board 1999).

A water-bearing zone has been observed beneath the site within the maximum explored depth of 70 feet bgs. This water-bearing zone exists from the apparent water table to approximately 40 feet bgs. Since 1989, the depth to groundwater beneath the site typically fluctuates from approximately 20 to 24 feet bgs. The expected natural groundwater flow direction is towards the Bay to the southwest. However since groundwater monitoring at the site began in 1989 the groundwater flow direction has been predominantly towards the northwest with very little fluctuation. The observed flow direction may be influenced by the BART KBL/KBR Tunnels that run east-west and may be acting as a barrier to groundwater flow. Additionally, nearby groundwater pumping for remediation purposes may also be contributing to the anomalous flow direction.

Groundwater monitoring of site wells was conducted from October 1989 through at least 2000 and then again on a quarterly basis between September 2004 and October 2006. Prior to Cambria becoming the consultant for the subject site (2004), it is known that several documents were prepared but are missing from the client, Cambria, and ACEH's files. Therefore the entire historic monitoring and sampling frequency is currently unknown and some data is likely missing. Free product has been observed from 1/8 to 1/4 inch thickness in well MW-2. As approved by ACEH's letter dated April 7, 2006 groundwater monitoring is performed on a semi-annual schedule during the first and second quarters beginning in 2006.

The nearest surface water bodies to the site are Oakland Inner Harbor located 2,500 feet to the southwest and Lake Merritt approximately 3,000 feet to the east.



4.0 PREVIOUS INVESTIGATIONS

Several phases of soil and groundwater assessments have been conducted at the site since the USTs were removed in 1989. Boring and well locations are presented on Figure 2.

May 1988: Frank Lee & Associates performed a soil and foundation investigation for the subject site. The purpose of this investigation was to determine the strength characteristics of the soil as a basis for making site grading and foundation design recommendations for a proposed three story commercial building. Soil beneath the site was observed to consist of generally moist, medium dense, brown silty fine sand to the total explored depth of 28.5 feet bgs. Tank backfill soil was observed to approximately 15.5 feet bgs in B-3 and to a minimum depth of 6 feet bgs in B-4. Frank Lee & Associates recommended excavating the then existing surficial material "to a minimum depth of 2 feet...and recompacted before placement of engineered fill or construction." Soil samples were collected from 1 to 4 feet bgs for analysis for volatile organic compounds (VOCs); low to medium boiling point hydrocarbons; benzene, toluene, ethylbenzene, xylenes (BTEX); and total oil and grease (TOG). None of these analytes were detected above laboratory detection limits (Frank Lee & Associates, 1988). Soil analytical data is summarized in Table 2. See Appendix B for copies of the boring logs.

August 1988: LW Environmental Services, Inc. performed a soil investigation. Gasoline hydrocarbon concentrations were detected in the vicinity of the then existing USTs (MEC, 1989b).

June 1989: The Robert J. Miller Company removed four USTs: two 6,000 gallon gasoline tanks, one 550 gallon waste oil tank, and one 1,000 gallon solvent tank. The Traverse Group Inc. (TGI) collected soil samples from beneath each tank and visually inspected the condition of each tank upon removal. No obvious pitting or corrosion was reported. The two gasoline USTs were removed from one excavation area in the northern corner of the site. The waste oil and solvent USTs were removed from one excavation area in the sidewalk south of the site, along 8th Street. Approximately 10 cubic yards of soil was deemed contaminated by TGI and stockpiled on site. Soil that TGI determined to be clean or only slightly impacted was stockpiled on site. Soil samples from the excavations and stockpiles were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg), as diesel (TPHd), as waste oil (TPHwo), and BTEX. Additionally, samples from the waste oil and solvent UST's excavation were analyzed for purgeable organics and semi-volatile organic compounds (SVOCs). High levels of fuel hydrocarbon contamination were detected in the northeast corner of the northeastern excavation and in the waste oil/solvent UST's excavation. Trace concentrations (less than 1.0 milligrams per kilogram [mg/kg]) of bis(2-ethylhexyl) phthalate, napthalene, and 2-methyl-napthalene were detected. The bis(2ethylhexyl) phthalate was thought to be a result of cross contamination at the laboratory. The

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napthalene concentrations were assumed to be an additive of the fuels stored on site (MEC, 1989c).

September - October 1989: Miller Environmental Company (MEC) performed a preliminary investigation to determine whether fuel detected in soil during UST excavation activities impacted groundwater. Two excavation pits were re-excavated to approximately 15 feet bgs and approximately 25 cubic yards of additional contaminated soil was removed. Confirmation soil samples were collected from the overexcavation sidewalls and bottoms. The highest levels detected in the northwestern overexcavated pit were 2.3 mg/kg TPHg, 80 mg/kg TPHwo, 0.05 mg/kg toluene, and 0.14 mg/kg xylenes. TPHd, benzene, and ethylbenzene were not detected above laboratory detection limits in samples collected from the northwestern pit. The highest levels detected in the waste oil/solvent overexcavated pit were 10,000 mg/kg TPHg, 250 mg/kg TPHd, 400 mg/kg TPHwo, 50 mg/kg benzene, 210 mg/kg toluene, 54 mg/kg ethylbenzene, and 270 mg/kg xylenes. Further overexcavation in the waste oil/solvent pit was not possible due to the proximity of 8th Street and interfering utilities along the southern edge of this excavation. An estimated 32 cubic yards of contaminated soil was hauled to a Class I disposal facility. The northwestern pit was backfilled with a combination of clean fill and re-used "uncontaminated soil" from the initial excavation of the two gasoline USTs. This re-used fill was intended to be temporary and to be removed when construction took place on the property. The waste oil/solvent pit was backfilled with clean fill. In addition, three monitoring wells (MW-1, MW-2, and MW-3) were installed as part of this investigation. Analytical results from these borings and wells indicated soil and groundwater from boring MW-1 was not impacted by hydrocarbons. Impacted soil was detected in offsite borings MW-2 and MW-3, between 20 to 25 feet bgs. Groundwater was first encountered in all boreholes at approximately 25 feet bgs. groundwater gradient and flow direction were calculated to be 0.006 feet per foot and to the westnorthwest, respectively.

MEC also researched underground fuel leak cases within a ½ mile radius of the site. MEC reported that there were 16 petroleum hydrocarbon fuel leak cases with in this radius and half of these were classified as groundwater problems. Only four of these sites had reported groundwater flow directions. Of these cases groundwater flow directions were reported as towards the north at a Shell Service Station site (461 8th Street), northwest at two sites, and northnortheast at one site. However, later in the same report MEC states that the Shell Service Station, which is the closest in proximity to the site, has a groundwater flow direction to the west, away from the site. Groundwater studies in the area by others were found to be inconsistent MEC reported that a northeasterly flow direction was observed one block away at the intersection of 9th and Webster, but it was anticipated to return to the "natural westerly flow pattern" when their dewatering pumps were shut off (MEC, 1989c).

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Early 1991: Construction of the existing building on site began in early 1991. It is reported that the ACEH concurred with MEC's conclusion that soil excavation in the interior portion of the site was successful in removing all but minor residual hydrocarbon contamination. As a result no objections were raised to construction activities on site. Monitoring well MW-1 was preserved in the construction process and remains accessible (MEC, 1992).

September - October 1991: MEC conducted a subsurface investigation to further define the lateral extent of offsite hydrocarbon contamination. On September 11, 1991, one borehole (B-1) was advanced and soil samples were collected. On October 2 and 3, 1991, three boreholes (B-2, MW-4, and MW-5) were advanced, soil samples were collected, and two monitoring wells were constructed (see Table 1). Groundwater was first encountered in all boreholes at approximately 25 feet bgs. No hydrocarbons were detected in soil samples collected to a depth of 20 feet bgs. However, soil samples from 25 feet bgs in boreholes B-1 and B-2 contained TPHg, Total Recoverable Petroleum Hydrocarbons (TRPH), TPHd range hydrocarbons, and toluene (see Table 2). On October 31, 1992, groundwater was sampled from wells MW-1 through MW-5. Approximately 1/8 inches of floating product was observed in well MW-2. Groundwater analytical results indicated very low to moderate concentrations of TPHg, TPHd, BTEX, and 1,2dichloroethane (1,2-DCA) in monitoring wells MW-1, MW-2, and MW-3. No TOG was detected above laboratory detection limits in any of the wells. Also detected in well MW-3 were 1,2dichloropropane at 0.0007 parts per million (ppm) and 1,1,1-trichoroethane (1,1,1-TCE) at 0.0014 ppm. No hydrocarbons were detected in groundwater from off site wells MW-4 and MW-5. However, very low levels of chloroform were detected in off site wells MW-4 and MW-5. See Table 3 for historic groundwater analytical results. The groundwater gradient and flow direction were calculated to be 0.008 feet per foot and to the southwest, respectively (MEC, 1992).

May 1997: On May 15, 1997, Associated Terra Consultants, Inc. (ATC) installed monitoring well MW-6. Soil samples were collected and analyzed. Soil samples had detectable concentrations of TPHd, BTEX, and methyl tertiary butyl ether (MTBE). TPHd was detected in soil at 10 feet bgs. BTEX were detected in soil at 25 feet bgs. MTBE was detected in soil at 30 feet bgs. See Table 2 for soil analytical results. Groundwater was first encountered at approximately 22.5 feet bgs. Boring logs are included in Appendix B. On May 21, 1997 ATC performed groundwater monitoring and sampling activities for all six of the site's monitoring wells.

November 2006: On November 17, 2006, Vironex installed soil vapor probes VP-1 and VP-2, under the supervision of Cambria, in the city sidewalk along Franklin and 8th Streets. Vapor probes VP-1 and VP-2 were constructed using 6-inch long sections of 1-inch diameter, schedule

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40 PVC well casing with 0.010 inch screen size. Cambria logged the soil cuttings in each boring. Soil samples were collected during the installation of soil vapor probes VP-1 and VP-2 at approximately 5 feet below ground surface (ft bgs). Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) by EPA Method 8015C; benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B; and 1,2-dichloroethane (1,2-DCA) and chloroform by EPA Method 8260B. Low levels of TPHd and TPHmo concentrations were detected in soil sample VP-1.5.5 at 4.0 and 6.9 milligrams per kilogram (mg/kg), respectively (Table 3). The TPHd result flagged significant oil range compounds. No other compounds were detected above laboratory reporting limits.

December 2006: On December 28, 2006, CRA collected soil vapor samples from probes VP-1 and VP-2. The samples were analyzed, in accordance with the approved July 24, 2006 *Work Plan*, for benzene and tracer compounds isobutene, butane and propane by modified EPA method TO-15. No benzene or tracer compounds were detected.

Groundwater Monitoring: Groundwater monitoring has been performed at the site since October 1989. Groundwater is currently monitored on a semi-annual basis.

5.0 SOIL VAPOR PROBES - INSTALLATION AND SAMPLING PROCEDURES

This section of the report presents preparations and procedures for the installation and sampling of soil vapor probes VP-1 and VP-2. These soil vapor probes were installed on November 17, 2006. They were subsequently sampled December 28, 2006 and July 25, 2007. Work was performed in accordance with the approved July 24, 2006 *Work Plan* and ACEH correspondence dated August 8, 2006, April 3, 2007, and May 4, 2007. Regulatory correspondences are provided in Appendix A.

5.1. Summary of Soil Vapor Probe Installation and Sampling

The objective of the soil vapor characterization is to evaluate the potential risk from vapor intrusion to occupants in the commercial building at the site and those adjacent to the site. The soil vapor probes were installed near wells MW-2 and MW-3, which have historically had high benzene concentrations. The following activities were performed:

- November 17, 2006: Install Soil Vapor Probes VP-1 and VP-2. Sample and analyze soil.
- December 28, 2006: Sample VP-1 and VP-2, analyze for TO-15 GC/MS Benzene.
- July 25, 2007: Sample VP-1 and VP-2, analyze for TO-15 GC/MS Full Volatile Organic Compound (VOC) Target List.

Soil Vapor Sampling Report Chiu Property, 800 Franklin Street, Oakland, California Fuel Leak Case No. RO0000196 October 4, 2007



Soil vapor probes were constructed and sampled following the standard operating procedures in Appendix B, based on the Department of Toxic Substances Control's (DTSC) January 28, 2003 *Advisory-Active Soil Gas Investigation* (DTSC *Advisory*). Construction logs for the soil vapor probes are provided in Appendix C. Applicable permits are presented in Appendix D. Soil vapor sampling field data is provided in Appendix E.

5.2. Soil Vapor Probe Installation and Sampling Procedures

Following is information on installation of the soil vapor probes and sampling procedures.

Personnel Present: Installation and sampling were completed by Senior Staff Geologist Celina Hernandez and Christina McClelland, which were overseen by Senior Project Geologist Mark Jonas, a California Professional Geologist No. 6392.

Permits: The Alameda County Public Works Agency (ACPWA) issued the subsurface drilling permit for the soil vapor probes. Also, Cambria obtained an excavation permit on behalf of Vironex to construct the probes in the sidewalk and an obstruction permit to reserve the parking meters from the City of Oakland. Copies of the permits are in Appendix D.

Drilling Company: Vironex (C57 # 705927) of Pacheco, California installed the soil vapor probes using a hand auger.

Vapor Probe Installation Date: On November 17, 2006, Vironex installed soil vapor probes VP-1 and VP-2 in the city sidewalk along Franklin and 8th Streets. Prior to probe installation, boring locations were marked with white paint and underground service alert (USA) was notified a utility survey. An independent utility survey around the probe locations was performed by Cruz Brothers Locators of Scotts Valley, California.

Probe Materials: Vapor probes VP-1 and VP-2 were constructed using 6-inch long sections of 1-inch diameter, schedule 40 PVC well casing with 0.010 inch screen size. These pipe sections were capped on both ends using PVC pipe caps. One cap was drilled and tapped to allow for the installation of a compression fitting. Nylaflow® tubing (¼-inch) was inserted in the compression fitting and the assembly was lowered into the boring to the specified depth (approximately 5 to 5.5 fbg), with the tubing terminating above grade. Sand was added to the borehole around the probes as a filter pack. Granualar bentonite was used as a seal from the top of the filter pack to approximately 1 fbg. A soil vapor probe diagram is presented in the boring logs in Appendix C.

Soil Logging: Each boring was logged, as presented in Appendix C. Soil samples were collected at 5.5 feet below ground surface (bgs). Soil samples are identified as VP-1-5.5 and VP-2-5.5.



Soil Vapor Sampling Events: Soil vapor samples were collected on December 28, 2006 and July 25, 2007. Soil vapor samples are identified as VP-1 and VP-2. Soil vapor sampling and leak testing were performed following Department of Toxic Substances Control's (DTSC) January 28, 2003 Advisory-Active Soil Gas Investigation guidelines. Paper towels with shaving cream were place at sample system connections for the leak test.

Purging and sampling were conducted at a rate of approximately 100 milliliters per minute (mL/min). Vapor samples were collected in one liter Summa[™] canisters after removing approximately three purge volumes from the screen interval. Each sample was labeled, documented on a chain-of-custody (COC), and submitted to Air Toxics, Ltd. of Folsom, California for analysis. Soil vapor sampling forms are presented in Appendix F.

Soil Vapor Sample Analysis: Each soil vapor probe was sampled and analyzed by EPA Method TO-15 GC/MS for benzene (December 28, 2006 sampling event) and the full VOC target list (July 25, 2007 sampling event). Each sampling event included tracer compounds isobutane, butane and propane for the leak test. Analysis was performed by Air Toxics, Ltd. of Folsom, California. These tracer compounds were identified by EPA method TO-15 as the most abundant compounds of the specific shaving cream analyzed and indicated by distinctive peaks on the petroleum hydrocarbon chromatograph, separate from TPH in the gasoline range.

6.0 SOIL VAPOR SAMPLING RESULTS

No concentrations of benzene or tracer compounds were detected in soil vapor probes VP-1 and VP-2 at a depth of approximately 5 fbg during either sampling event. The only chemicals detected were 2-butanone (Methyl Ethyl Ketone), 2,2,4-Trimethylpentane, Freon 12, Acetone, and Tetrachloroethane. Detections do not exceed Regional Water Quality Control Board — San Francisco Bay Region Environmental Screening Levels (ESLs) for any of the chemicals with an established ESL. Figure 2 presents the locations of probes VP-1 and VP-2. Analytical results are presented in Table 1. Copies of soil vapor sampling forms are presented in Appendix E. Copies of the laboratory analytical reports and COCs are included in Appendix F.

The following Table 6-1 presents onsite soil gas results for both (December 28, 2006 & July 25, 2007) sampling events and ESLs for detected analytes.



Table 6-1
Detected Analytes and Soil Gas Environmental Screening Levels

| Analytes | Frequency of Detection December 2006 & July 2007 | Maximum 5' Soil Gas (ug/m³) | Vapor Intrusion 5' Soil Gas Residential ¹ (ug/m³) | Vapor Intrusion 5' Soil Gas Commercial/Industrial ¹ (ug/m ³) |
|-------------------------------------|---|--------------------------------------|---|--|
| Benzene | 0/4 (0%) | ND<4.0 | 85 | 290 |
| 2-butanone (Methyl Ethyl Ketone) | 1/2 (50%) | 9.6 | 210,000 | 590,000 |
| 2,2,4-Trimethylpentane | 1/2 (50%) | 12 | Not Established | Not Established |
| m,p-xylene ² | 0/2 (0%) | ND<5.2 | 150,000 | 410,000 |
| 1,2,4-trimethylbenzene ² | 0/2 (0%) | ND<5.9 | Not Established | Not Established |
| Freon 12 | 1/2 (50%) | 34 | Not Established | Not Established |
| Acetone | 1/2 (50%) | 27 | 660,000 | 1,800,000 |
| Tetrachloroethene | 1/2 (50%) | 8.9 | 410 | 1,400 |

notes:

ESL = Environmental Screening Level

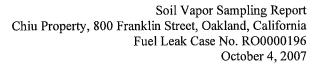
1 = Table E (RWQCB 2005), ESL, Indoor Air and Soil Gas (Vapor Intrusion Concerns)

2 = Only detected in duplicate sample. See Table 1 for values.

No concentrations of benzene, and the tracer compounds (isobutane, butane and propane) were detected in soil vapor collected from probes VP-1 and VP-2, from a depth of approximately 5 fbg. The only chemicals detected were 2-butanone (Methyl Ethyl Ketone), 2,2,4-Trimethylpentane, Freon 12, Acetone, and Tetrachloroethane. No detected concentrations exceed any ESLs for residential or commercial/industrial soil vapor intrusion.

7.0 SOIL SAMPLING PROCEDURES AND RESULTS

During installation of soil vapor probes VP-1 and VP-2, borehole soil samples were collected and analyzed, as presented in this section. Boring locations are presented on Figure 2. Soil analytical results are presented in Table 2 and a copy of the analytical laboratory report and chain-of-custody are provided in Appendix G.





Soil Sampling Procedure: On November 17, 2006, during the installation of soil vapor probes VP-1 and VP-2, two soil samples were collected at approximately 5 feet below ground surface (ft bgs). A hand auger was used to advance the borings to 5 fbg and a slide hammer was driven into the soil from 5 to 5.5 fbg to collect a soil sample in a six-inch brass sleeve. A composite sample, W-1, was collected for waste disposal purposes.

Soil Analyses and Results: Soil samples collected from borings VP-1 and VP-2 were analyzed for total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) by EPA Method 8015C; benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B; and 1,2-dichloroethane (1,2-DCA) and chloroform by EPA Method 8260B. Low levels of TPHd and TPHmo concentrations were detected in soil. Specifically, sample VP-1.5.5 had detectable concentrations of TPHd and TPHmo at 4.0 and 6.9 milligrams per kilogram (mg/kg), respectively (Table 2). The TPHd result flagged significant oil range compounds. No other compounds were detected above laboratory reporting limits. Therefore, the results of the 5 foot bgs soil samples, at locations VP-1 and VP-2, shows none to minimal soil impact.



8.0 CONCLUSIONS AND RECOMMENDATIONS

Following are conclusions and recommendations:

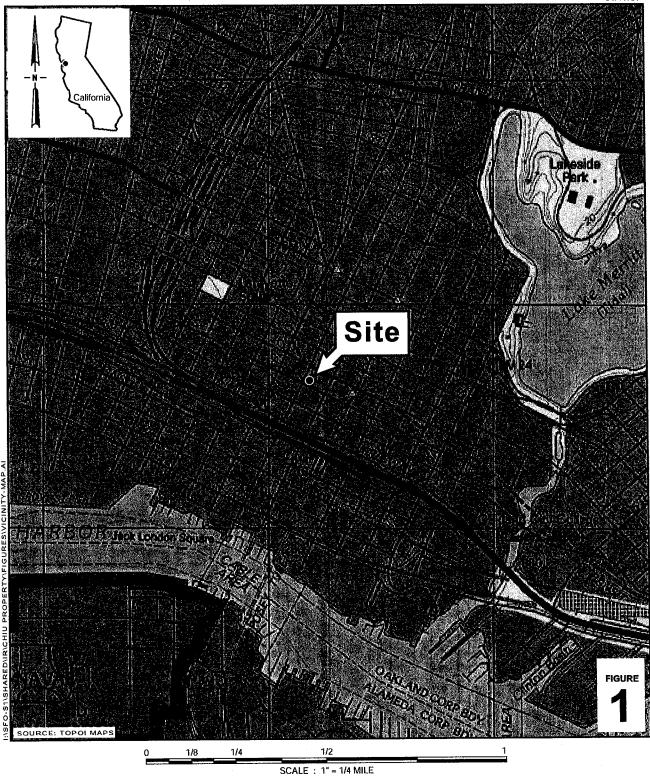
8.1. Conclusions

- Based on the soil vapor sampling results, any vapor intrusion is none to de minimis.
- The results of soil samples collected at 5 feet bgs show none to minimal soil impact.

8.2. Recommendation

• Based on the results, no further soil vapor investigation is recommended. CRA recommends abandoning soil vapor probes VP-1 and VP-2.

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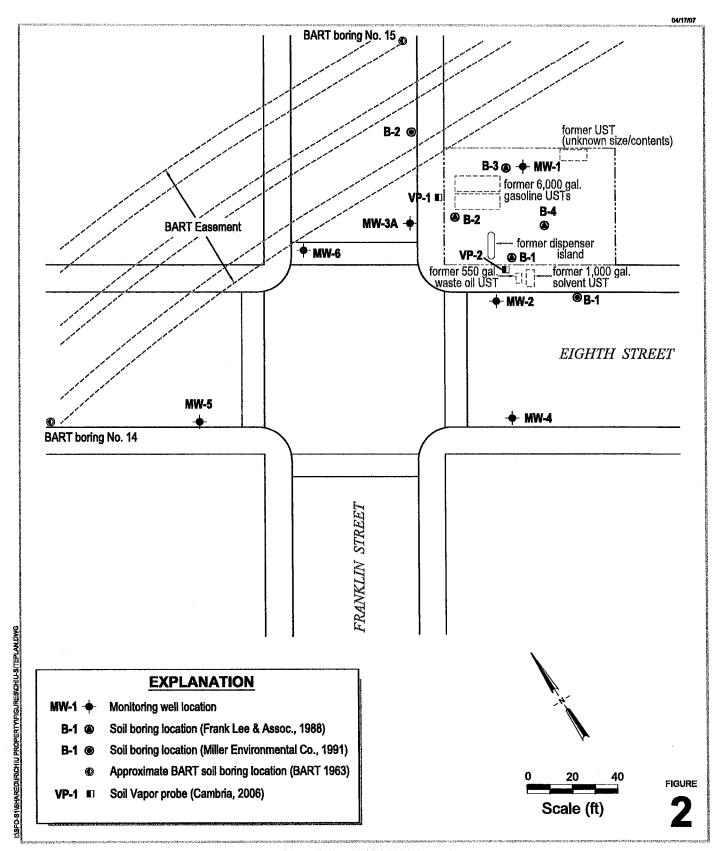


Chiu Property

800 Franklin Street Oakland, California



Vicinity Map



Chiu Property

800 Franklin Street Oakland, California



Site Plan

CONESTOGA-ROVERS & ASSOCIATES

Table 1. Soil Vapor Analytical Data - Chiu Property, 800 Franklin Street, Oakland, California

| Sample ID | Sample ID Date Sampled (ft) Register 2, Introduction of the Company of the Compan | | | | | | | | | | | | | | |
|----------------------------|--|----------|------------------|---------|--------|------------|------------|-----------------|-----------|------------|----------|----------------|----------|--|--|
| VP-1 | 11/17/2006 7/25/2007 | 5 5 | ND<3.9 ND<3.9 | 9.6 | 12 | ND<5.2 | ND<5.9 | ND<6.0 | ND<11 | ND<8.2 | ND ND | ND ND ND | ND ND | | |
| VP-2 | 11/17/2006 7/25/2007 | 5 5 | ND<4.0 ND<3.6 | ND<3.4 | ND<5.3 | ND<5.0 | ND<5.6 | 34 | 27 | 8.9 | ND | ND | ND | | |
| Duplicate Sample | s | | | | | | | | | | | | | | |
| VP-1-Dup VP-2-Duplicate | 11/17/2006 11/17/2006 | . 5 5 | ND<4.0 ND<4.0 | | | | | | | | ND ND | ND ND | ND ND | | |
| SV-1-Dup | 7/25/2007 | 5 | ND<4.0 | ND<3.7 | ND<5.9 | 6 | 7.7 | ND<6.2 | ND<12 | | ND | ND | ND | | |

Abbreviations and Analyses:

 $ND \le n$ = Not decreted (ND) above laboratory detection limit, n.

ft = Measured in feet

 $uG/m^3 = Microgram per cubic meter.$

Benzene, isobutane, butane and propane by modified EPA Method TO-15 (7/25/2007 event analyzed the TO-15 full scan)

Conestoga-Rovers & Associates, Inc.

Table 2. Soil Analytical Data - Chiu Property, 800 Franklin Street, Oakland, California

| . - | Date | Depth | TPHg | TPHd | TPHwo | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | МТВЕ | SVOCs | VOCs | Total Oil & Grease | MD DIT | Total Lead |
|---|--|----------------------|---------------------------|-----------------------|-----------------------|---------|----------------------|-------------------------|-------------------------|----------------------|-------------|-------------|-------------|-----------------------|-------------|-------------|
| Sample ID | Sampled | (ft) | (mg/kg) | (mg/kg) | (mg/kg)_ | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | TRPH | (mg/kg) |
| Soil and Foundation Investigation by F | Trank I oo & As | sociates | - Soil Rorings | , | | | | | | | | | | | | |
| B-1-3 | 5/3/1988 | 3 | - | _ | _ | _ | ND<0.1 | ND<0.1 | ND<0.1 | ND<0.1 | - | - | ND | ND<30 | ND<30 | - |
| B-2-1 | 5/3/1988 | 1 | ND<1.0 * | _ | _ | - | ND<0.05 | ND<0.1 | - | ND<0.1 | - | - | ND | - | - | - |
| B-3-4 | 5/3/1988 | 4 | ND<1.0 * | _ | _ | - | ND<0.05 | ND<0.1 | - | ND<0.1 | - | - | ND | - | - | - |
| B-3-4 | 2/2/1/00 | - | 1115 11.0 | | | | | | | | | | | | | |
| UST Removal by Robert J. Miller Com UST Excavation Compliance Samples | | The Trav | erse Group, I | nc. | | | | | | | | | | | | |
| T1 - Gasoline Tank | June-89 | - | ND<1.0 | ND<6.3 | ND<30 | | 0.011 | 0.0036 | ND<0.0025 | 0.006 | - | (1) | ND | - | - | - |
| T2 - Gasoline Tank | June-89 | - | 5.0 | ND<6.7 | 30 | | 0.050 | 0.044 | 0.0036 | 0.023 | - | (2) | ND | - | - | - |
| T3 - Gasoline Tank | June-89 | - | ND<1.0 | ND<7.0 | ND<30 | | 0.0046 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | (3) | ND | - | - | - |
| T4 - Gasoline Tank | June-89 | - | 3,100 | 420 | 1,350 | | 7.5 | 87 | 59 | 290 | - | (4) | ND | - | - | - |
| W1 - Waste Oil Tank | June-89 | - | 270 | 430 | 4,000 | | ND<5.0 | ND<5.0 | ND<5.0 | 14 | - | (5) | ND | - | - | - |
| W2A - Waste Oil Tank | June-89 | _ | 2,300 | 170 | 50 | | ND<2.5 | 3 | ND<2.5 | 12 | - | (6) | ND | - | - | - |
| S1 - Solvent Tank | June-89 | - | 1.8 | ND<6.0 | ND<30 | | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | (7) | ND | - | - | - |
| S2 - Solvent Tank | June-89 | - | 62 | 106 | ND<30 | | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | - | (8) | ND | - | - | - |
| SP1 - Spoils Pile "Contaminated" | June-89 | _ | 184 | 240 | 900 | | ND<5.0 | 17 | 19 | 110 | - | (9) | ND | - | - | - |
| SP2 - Spoils Pile "Clean" | June-89 | _ | ND<1.0 | ND<6.7 | ND<30 | | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | ND | ND | - | - | - |
| SP3 - Spoils Pile "Clean" | June-89 | _ | 120 | 40 | 150 | | ND<1.0 | ND<1.0 | ND<1.0 | 2.1 | - | (10) | ND | - | - | - |
| Over-Excavation Confirmation Sample EX1-A (fuel tank) EX1-B (fuel tank) EX1-C (fuel tank) EX2-A (waste oil and solvent tanks) | 9/7/1989 9/7/1989 9/7/1989 9/7/1989 | 15 15 15 15 | ND ND 2.3 10,000 | ND ND ND 250 | ND 40 80 400 | | ND ND ND 50 | ND ND 0.05 210 | ND ND 0.14 270 | ND ND ND 54 | - - - | - - - | - - - | - - - | - - - | - - - |
| EX2-B (waste oil and solvent tanks) | 9/7/1989 | 15 | 4.1 | ND | ND | | ND | ND | 0.15 | ND | - | - | - | - | - | - |
| Well Installation Soil Samples | | , | 3.775 | 22 | | 30 | ND | ND | ND | ND | _ | _ | - | 30 | - | _ |
| MW1-A | 9/12-13/1989 | | ND | 23 | | ND | ND | ND | ND | ND | _ | - | - | ND | - | - |
| MW1-B | 9/12-13/1989 | | ND | ND | | ND | ND | ND | ND | ND | _ | _ | - | ND | - | - |
| MW1-C | 9/12-13/1989 | | ND | ND ND | | ND | 0.12 | 0.7 | 0.53 | 4.5 | _ | - | - | ND | - | - |
| MW1-D | 9/12-13/1989 | | 52 | ND ND | | ND | ND | ND | ND | ND | _ | _ | _ | ND | _ | - |
| MW1-E | 9/12-13/1989 | 26 | ND | ND | | ND | ND | ND | 112 | 1,2 | | | | | | |
| MW2-A | 9/12-13/1989 | 6 | ND | ND | | ND | ND | ND | ND | ND | - | - | - | | - | - |
| MW2-A MW2-B | 9/12-13/1989 | | ND | ND | | ND | ND | ND | ND | ND | - | - | - | | - | - |
| MW2-B MW2-C | 9/12-13/1989 | | ND | ND | | ND | ND | ND | ND | ND | - | - | - | | - | - |
| | 9/12-13/1989 | | 1,900 | 110 | | 50 | 7.4 | 51 | 24 | 180 | - | - | - | 50 | - | - |
| MW2-D | 9/12-13/1989 | | 7,800 | 170 | | 30 | 52 | 220 | 77 | 400 | - | - | - | 30 | - | - |
| MW2-E | J112-13/1709 | 20 | ,,000 | 2,0 | | | | | | | | | | | | |
| MW3-A | 9/12-13/1989 | 6 | ND | ND | | ND | ND | ND | ND | ND | - | - | - | ND | - | - |
| | 9/12-13/1989 | | ND | 25 | | ND | ND | ND | ND | ND | - | - | - | ND | - | - |
| MW3-B | 9/12-13/1989 | | ND | ND | | ND | ND | ND | ND | 0.07 | - | - | - | ND | - | - |
| MW3-C MW3-D | 9/12-13/1989 | | 2,200 | 160 | | 40 | 7.5 | 42.3 | 16 | 180 | - | - | - | 40 | - | - |

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Soil Table

Conestoga-Rovers & Associates, Inc.

Table 2. Soil Analytical Data - Chiu Property, 800 Franklin Street, Oakland, California

| Sample ID | Date Sampled | Depth (ft) | TPHg (mg/kg) | TPHd (mg/kg) | TPHwo (mg/kg) | TPHmo (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | MTBE (mg/kg) | SVOCs (mg/kg) | VOCs (mg/kg) | Total Oil & Grease (mg/kg) | ТПРН | Total Lead (mg/kg) |
|-------------------------------------|------------------|---------------|-----------------|-----------------|------------------|------------------|--------------------|--------------------|-------------------------|--------------------|-----------------|------------------|--------------------------------------|----------------------------------|-------|-----------------------|
| MW3-E | 9/12-13/1989 | | 24 | ND | | ND | 0.6 | 1.1 | 0.17 | 1.4 | - | - | - | ND | - | - |
| Additional Subsurface Investigation | bv Miller Enviro | nmental | Company | | | | | | | | | | | | | |
| B1-5 | 9/11/1991 | 5 | ND<0.20 | ND<5.0 | - | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | · - | ND | ND<20 | - |
| B1-10 | 9/11/1991 | 10 | ND<0.20 | ND<5.0 | - | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | - | ND | ND<20 | - |
| B1-15 | 9/11/1991 | 15 | ND<0.20 | ND<5.0 | - | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | - | ND | ND<20 | - |
| B1-20 | 9/11/1991 | 20 | ND<0.20 | ND<5.0 | - | _ | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | - | ND | ND<20 | - |
| B1-25 | 9/11/1991 | 25 | 2,900 | 160 | - | - | ND<25 | 60 | ND<25 | ND<25 | | - | - | ND | 190 | - |
| B2-5 | 10/2/1991 | 5 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| B2-10 | 10/2/1991 | 10 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| B2-15 | 10/2/1991 | 15 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| B2-20 | 10/2/1991 | 20 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| B2-25 | 10/2/1991 | 25 | 120 | 83 | - | ND<10 | ND<0.0025 | 0.310 | 0.210 | 0.600 | - | - | - | ND<50 | - | - |
| MW4-5 | 10/2/1991 | 5 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW4-10 | 10/2/1991 | 10 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW4-15 | 10/2/1991 | 15 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW4-20 | 10/2/1991 | 20 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | _ | - | - | ND<50 | - | - |
| MW4-25 | 10/2/1991 | 25 | ND<1 | ND<1 | _ | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| W W 4-23 | 10,2,1001 | | | | | | | | | | | | | | | |
| MW5-5 | 10/3/1991 | 5 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW5-10 | 10/3/1991 | 10 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW5-15 | 10/3/1991 | 15 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW5-20 | 10/3/1991 | 20 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| MW5-25 | 10/3/1991 | 25 | ND<1 | ND<1 | - | ND<10 | ND<0.0025 | ND<0.0025 | ND<0.0025 | ND<0.0025 | - | - | - | ND<50 | - | - |
| Additional Subsurface Investigation | hv Associated Te | erra Cons | sultants. Inc. | | | | | | | | | | | | | |
| B6-1 (MW-6) | 5/15/1997 | 5 | ND<1.0 | ND<1.0 | - | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | ND<50 | - | -, |
| B6-2 (MW-6) | 5/15/1997 | 10 | ND<1.0 | 9.1 | - | _ | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | ND<50 | - | - |
| B6-3B (MW-6) | 5/15/1997 | 15 | ND<1.0 | ND<1.0 | _ | _ | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | ND<50 | - | - |
| B6-4B (MW-6) | 5/15/1997 | 20 | ND<1.0 | ND<1.0 | - | _ | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | ND<50 | - | - |
| ` ' | 5/15/1997 | 25 | ND<1.0 | ND<1.0 | _ | _ | 0.050 | 0.011 | 0.023 | 0.099 | ND<0.0050 | - | - | ND<50 | - | |
| B6-5B (MW-6) B6-6B (MW-6) | 5/15/1997 | 30 | ND<1.0 | ND<1.0 | _ | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | 0.0050 | - | - | ND<50 | - | - |
| B6-11 (MW-6) | 5/15/1997 | 35 | ND<1.0 | ND<1.0 | - | - | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | - | - | ND<50 | - | - |
| Soil Vapor Borings by Cambria | | | | | | | | | | | | | | | | 25 |
| VP-1.5.5 | 11/17/2006 | 5.5 | ND<1.0 | 4.0 | | 6.9 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.05 | - | chloroform & 1,2-DCA: ND<0.005 | | - | 35 |
| VP-2-5.5 | 11/17/2006 | 5.5 | ND<1.0 | ND<1.0 | - | ND<5.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.05 | - | chloroform & 1,2-DCA: ND<0.005 | | - | - |

Conestoga-Rovers & Associates, Inc.

Table 2. Soil Analytical Data - Chiu Property, 800 Franklin Street, Oakland, California

| | | | | | | | | | | | | | | Total Oil | | |
|-----------|---------|-------|---------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|-----------|------|------------|
| | Date | Depth | TPHg | TPHd | TPHwo | TPHmo | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | SVOCs | VOCs | & Grease | | Total Lead |
| Sample ID | Sampled | (ft) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | TRPH | (mg/kg) |

Abbreviations and Analyses:

ND<0.5 = Not Detected (ND) above laboratory detection limit.

ft = Measured in feet

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

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

TPHwo = Total petroleum hydrocarbons as waste oil by modified EPA Method 418.1/3550/SM503

TPHmo = Total petroleum hydrocarbons as motor boil by modified EPA Method 8015

Benzene, ethylbenzene, toluene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020 or 8021B

SVOCs = Semi-volatile organics by EPA Method 8270.

VOCs = Volatile organics by EPA Method 8240.

TRPH = Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1

Total Lead by EPA Method 7420

mg/kg = Milligrams per kilogram

- = Not sampled, not analyzed, or not applicable
- * = Analyzed for "low to medium boiling point hydrocarbons" by EPA Method 8015.
- WO1 sampled on 1/17/1991 was also analyzed for Total Petroleum Fuel Hydrocarbons by EPA Method 8015 (ND<1.0 mg/kg).
- WO1 sampled on 1/17/1991 was also analyzed for Halogenated Volatile Organics by EPA Method 8010 (all analytes were ND).

WO1 sampled on 1/17/1991 was also analyzed for Semi-Volatile Organics by EPA Method 8270. The following analytes were detected: benzo(a)pyrene at 0.10 mg/kg, fluoranthene at 0.11 mg/kg, and pyrene at 0.15 mg/kg (all other analytes were ND).

- (1) = 0.20 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (2) = 0.24 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (3) = 0.42 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (4) = 28 mg/kg naphthalene; 23 mg/kg 2-methyl-naphthalene. Other SVOCs were ND.
- (5) = 0.37 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (6) = 6.4 mg/kg naphthalene; 4.1 mg/kg 2-methyl-naphthalene. Other SVOCs were ND.
- (7) = 0.50 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (7) = 0.50 mg/kg bis (2-ethylhexyl) phthalate. Other SVOCs were ND.
- (8) = 2.4 mg/kg naphthalene; 1.9 mg/kg 2-methyl-naphthalene. Other SVOCs were ND.
- (9) = 27 mg/kg naphthalene; 13 mg/kg 2-methyl-naphthalene. Other SVOCs were ND.
- (10) = 1.6 mg/kg naphthalene; 2.0 mg/kg 2-methyl-naphthalene. Other SVOCs were ND.



APPENDIX A

Agency Correspondence

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY





DAVID J. KEARS, Agency Director

May 4, 2007

Mr. Tommy Chiu P.O. Box 28194* Oakland, CA 94606



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

Subject: Fuel Leak Case No. RO0000196 and Geotracker Global ID T0600100050, Bill Louie's Auto Service, 800 Franklin Street, Oakland, CA 94607

Dear Mr. Chiu:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted document entitled, "Site Assessment Report - Addendum," dated April 18, 2007, prepared on your behalf by Conestoga-Rovers & Associates. The "Site Assessment Report - Addendum," presents soil analytical results from soil samples collected in soil vapor probe borings VP-1 and VP-2. These soil analytical results were omitted from the previous February 23, 2007 report. The "Site Assessment Report - Addendum," also includes correspondence entitled, "Response to April 3, 2007 ACEH Comment Letter," dated April 12, 2007.

We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

- 1. **Soil Samples.** Soil analytical results for soil vapor probes are presented in the "Site Assessment Report Addendum," dated April 18, 2007. No additional soil sampling is requested from soil vapor-probes VP=1 and VP-2.
- Volatile Organic Compounds. The lack of analytical data for chlorinated solvents remains a data gap. A solvent tank, waste oil tank, and UST with unknown contents were present at the site. Analysis of soil gas samples only for benzene is not sufficient to evaluate potential vapor intrusion from solvents. Photoionization detector measurements and analysis of soil samples for chloroform and 1,2-dichloroethene are also not sufficient to assess the potential for vapor intrusion from chlorinated solvents. Therefore, the collection and analysis of soil vapor samples for a full target list of VOCs that includes BTEX and chlorinated solvents using Method TO-15 is required. Conestoga-Rovers has previously requested that collection of soil vapor samples at two locations inside the building be deferred pending the results of soil vapor sampling at two locations outside the building. We have no objection to a phased approach but the first phase of soil vapor sampling must provide sufficient data to evaluate potential vapor intrusion issues. Please present the results in the Soil Vapor Sampling Report requested below along with recommendations for installation of the second phase of soil vapor probes inside the building.

3. **Groundwater Monitoring.** For clarification, future groundwater samples are to be analyzed for TPH as diesel and motor oil by EPA Method 8015. The groundwater samples are also to be analyzed for TPH as gasoline and the full target VOC list using EPA Method 8260B. Groundwater monitoring is to be conducted in all existing wells on a semi-annual basis.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- July 18, 2007 Soil Vapor Sampling Report
- November 15, 2007 Semi-Annual Monitoring Report for the Third Quarter 2007

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." 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).

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

Mr. Tommy Chiu RO0000196 May 4, 2007 Page 3

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.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

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 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) 567-6791.

Sincerely,

Jerry Wickham, P.G.

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Celina, Hernandez, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608

Mark Jonas, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File



5900 Hollis Street, Suite A, Emeryville, California 94608 Telephone: 510·420·0700 Facsimile: 510·420·9170

www.CRAworld.com

April 12, 2007

Mr. Jerry Wickham, P.G. Alameda County Environmental Health Care Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

FILE COPY

Re:

Response to April 3, 2007 ACEH Comment Letter

Chiu Property 800 Franklin Street, Oakland, California 94607 Fuel Leak Case No. RO0000196 CRA Project No. 581000

Dear Mr. Wickham:

This letter is in response to Alameda County Environmental Health's (ACEH) April 3, 2007 letter (Attachment A) commenting on Cambria's February 23, 2007 *Site Assessment Report*. On April 2, 2007, Cambria Environmental Technology, Inc. (Cambria) was acquired by Conestoga Rovers & Associates, Inc (CRA). Therefore, CRA prepared this response letter for the site referenced on behalf of our client, Mr. Tommy Chiu.

RESPONSE TO ACEH'S APRIL 3, 2007 LETTER

ACEH reviewed Cambria's February 23, 2007 Site Assessment Report and made technical comments in their April 3, 2007 letter. ACEH addressed four issues and CRA's response is below:

Soil Samples: On November 17, 2006, two soil samples, VP-1 and VP-2, were collected at 5 feet below ground surface (ft bgs) and analyzed for total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) by EPA Method 8015Cm; benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B; and 1,2-dichloroehtane (1,2-DCA) and chloroform by EPA Method 8260B. CRA will present these results under a separate cover in a Site Assessment Report-Addendum.

Volatile Organic Compounds (VOCs): In the July 24, 2006 Response to Agency Comments and Work Plan, Cambria responsed to ACEH's April 7, 2006 letter (Attachment A) regarding VOC analysis. Cambria listed potential contaminants of concern (COCs) as TPHg, TPHd, TPHmo, BTEX, MTBE, 1,2-DCA and chloroform. Cambria then stated that future samples should be analyzed for these constituents, specifically for soil and groundwater. This rececommendation did not include the full suite of VOCs. In the July 24, 2006 Work Plan, Cambria stated "The soil vapor samples will be analyzed for benzene using EPA Method 8260, TO-15, or TO-14A." ACEH approved this approach in the August 8, 2006 letter (Attachment A). Therefore, soil vapor sampling and analysis was completed as proposed and approved.



Response to Comments Letter Chiu Property, 800 Franklin Street, Oakland, California Fuel Leak Case No. RO0000196 April 12, 2007

Please reconsider the need to drill another set of borings to collect and analyze soil vapor for a suite of VOCs. Photoionization detector (PID) measurements collected at 2 and 5 ft bgs, from VP-1 and VP-2, were all non-detect and benzene was not detected in both soil vapor samples. Based on these results, we do not consider it necessary to collected any additional soil vapor samples.

Soil Boring Log for MW-3A: Well MW-3A, replacing well MW-3, was installed on February 8, 2007. Cambria logged the lithology in the boring for MW-3A based on the soil cuttings encountered while drilling. Soil cuttings were screened using a PID. Our project file for thesite did not include the original boring and well construction log for well MW-3. MW-3 was originally installed in 1989 by Miller Environmental Company. Cambria produced a well destruction log for MW-3, assuming that litology in boring MW-3 is similar to boring MW-3A, since they are located within a few feet of each other.

Groundwater Monitoring: In the ACEH April 3, 2007 letter, ACEH requested that "groundwater samples are to be analyzed for TPH as gasoline, diesel, and motor oil by EPA Method 8015 and BTEX, MTBE, and chlorinated solvents by EPA Method 8260B." Groundwater samples have typically been analyzed for TPHg, BTEX, and MTBE using EPA Methods 8015C/8021B; TPHd and TPHmo with EPA Method 8015C with silica gel cleanup; and 1,2-DCE and chloroform by EPA Method 8260B. Several issues: 1) First quarter 2007 (first half 2007) groundwater samples were already collected on March 8, 2007. Samples were analyzed for the typical list of analytes and methods presented above. So, the First Half 2007 Groundwater Monitoring Report will present the result for our typical list analytes and methods. 2) We typically analyze BETX and MTBE using 8021B rather than 8260B. In the future, would you like us to present BTEX and MTBE using Method 8260B? 3) We currently analyze chlorinated solvents 1,2-DCE and chloroform, based on the list of potential COCs for the site. In the future, do you want us to analyze groundwater for the complete VOC list, using method 8260B?



Response to Comments Letter Chiu Property, 800 Franklin Street, Oakland, California Fuel Leak Case No. RO0000196 April 12, 2007

CLOSING

Thank you for your time and consideration of these issues. We look forward to your response. Currently we are on-hold for any additional soil vapor characterization pending you review and response to this correspondence. As always, it is a pleasure working with you and if you have any questions or comments regarding this letter, please call Celina Hernandez at 510/420-3313 or Mark Jonas at 510/420-3307.

Sincerely,

Conestoga-Rovers & Associates, Inc.

Celina Hernandez

Senior Staff Geologist

Mark Jonas, P.G.

Senior Project Manager

Attachments: A - Regulatory Correspondence

cc: Mr. Tommy Chiu, P.O. Box 28194, Oakland, California 94606

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ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

April 3, 2007

APR - 5 2007

Mr. Tommy Chiu P.O. Box 28194 Oakland, CA 94606 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510). 567-6700 FAX (510). 337-9335

Subject: Fuel Leak Case No. RO0000196 and Geotracker Global ID T0600100050, Bill Louie's Auto Service, 800 Franklin Street, Oakland, CA 94607

Dear Mr. Chiu:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the recently submitted report entitled, "Site Assessment Report," dated February 23, 2007, prepared on your behalf by Cambria Environmental Technology, Inc. The "Site Assessment Report," presents results from the installation and sampling of two soil vapor probes and rebuilding of monitoring well MW-3. Two soil vapor probes were installed outside the building at 800 Franklin Street on November 17, 2006. Benzene and tracer compounds were not detected in soil vapor samples collected from the two probes. Two additional proposed soil vapor probes were to be installed inside the building; however, installation of the probes inside the building was deferred until a later phase of investigation based on a recommendation by Cambria Environmental Technology, Inc. The "Site Assessment Report," dated February 23, 2007 recommends no further soil vapor investigation. However, the data collected to date are not sufficient to support this recommendation. Therefore, as discussed in the technical comments below, we request that you conduct additional soil vapor sampling and groundwater monitoring.

We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

1. Soil Samples. Soil samples were to have been collected for laboratory analysis from each of the soil vapor probe borings but do not appear to have been analyzed. As proposed in the document entitled, "Response to Agency Comments and Work Plan," dated July 24, 2006, soil samples were to have been collected from 5 feet bgs in each soil vapor probe boring. The purpose of the soil samples was to provide sampling results adjacent to the former UST excavations. Proposed analyses for the soil samples included TPHg, TPHd, TPHmo, BTEX, MTBE, 1,2-DCA, and chloroform. In reviewing the soil boring logs for VP-1 and VP-2, it appears that soil samples may have been collected from approximately 5 feet bgs in the borings but no analytical results are presented. Please collect and analyze soil samples from approximately 5 feet bgs at these locations or describe the rationale for not analyzing these soil samples in the Soil Vapor Sampling Report requested below.

- 2. Volatile Organic Compounds. Solvents were used and stored in USTs on the site. As previously discussed in our correspondence dated April 7, 2006, the lack of analytical data for volatile organic compounds (VOCs) is a data gap for the site. No VOCs other than benzene were analyzed in the soil vapor samples collected on November 17, 2006. Therefore, we request that you sample the soil vapor probes a second time and analyze the soil vapor samples for a full target list of VOCs that includes BTEX and chlorinated solvents using Method TO-15. Please present the results in the Soil Vapor Sampling Report requested below along with recommendations for installation of the second phase of soil vapor probes inside the building.
- 3. Soil Boring Log for Well MW-3A. A notation on the soil boring log for well MW-3 states, "Soil lithology based on soil cuttings from MW-3A and other soil boring logs." Please clarify the source of the information on the MW-3 soil boring log. The purpose of a soil boring log is to present a description of the soils encountered in a specific boring. Information from adjacent borings should not be entered on a boring log for well MW-3.
- 4. Groundwater Monitoring. Groundwater monitoring is to be conducted in all existing wells on a semi-annual basis. The groundwater samples are to be analyzed for TPH as gasoline, diesel, and motor oil by EPA Method 8015 and BTEX, MTBE, and chlorinated solvents by EPA Method 8260B. Please present results of the groundwater sampling in the semi-annual groundwater monitoring reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- May 15, 2007 Semi-Annual Monitoring Report for the First Quarter 2007
- July 18, 2007 Soil Vapor Sampling Report
- November 15, 2007 Semi-Annual Monitoring Report for the Third Quarter 2007

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Mr. Tommy Chiu April 3, 2007 Page 3

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).

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.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

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

Mr. Tommy Chiu April 3, 2007 Page 4

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham, P.G. Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Mark Jonas

Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH

File

ALAMEDA COUNTY

HEALTH CARE SERVICES





ORIGINAL

DAVID J. KEARS, Agency Director

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

August 8, 2006

AUG 10 7708

Mr. Tommy Chiu P.O. Box 28194 Oakland, CA 94606

Subject: Fuel Leak Case No. RO0000196, Bill Louie's Auto Service, 800 Franklin Street, Oakland, CA

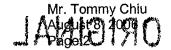
Dear Mr. Chiu:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Response to Agency Comments and Work Plan," dated July 24, 2006, prepared on your behalf by Cambria Environmental Technology, Inc. The "Response to Agency Comments and Work Plan," presents responses to technical comments in our April 11, 2006 correspondence and proposes a scope of work to rebuild monitoring well MW-3 and collect soil vapor samples at four sampling locations. We concur with the proposed scope of work provided that the technical comments below are addressed during the field investigation.

We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

- 1. Depth of Soil Vapor Samples. The depths at which soil vapor samples will be collected do not appear to be specified in the Work. We request that soil vapor samples be collected at a depth of approximately 4 feet bgs. The recommended depth may be adjusted in the field based on encountered conditions to intercept any significant coarse-grained layers that may be preferential pathways for soil vapors. Please present results of the soil vapor sampling in the Site Assessment Report requested below.
- Laboratory Analyses of Soil Vapor Samples. The Work Plan proposes analyses of soil vapor samples by EPA Methods TO-15, TO-14A, or 8260. EPA Method 8260 is acceptable provided that a reporting limit of 85 micrograms per cubic meter can be achieved.
- 3. **Hydraulic Gradient and Off-site Receptors.** ACEH appreciates the research conducted on of-site receptors and the BART tube. Based on the information provided, nearby buildings and the BART tube do not appear to be receptors for groundwater from the site.
- 4. **Groundwater Monitoring.** Groundwater monitoring is to be conducted in all existing wells on a semi-annual basis. ACEH concurs with the proposed analyses. Please present results of the groundwater sampling in the semi-annual groundwater monitoring reports requested below.



TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- November 15, 2006 Quarterly Monitoring Report for the Third Quarter 2006
- December 15, 2006 Site Assessment Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

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. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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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.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

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 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) 567-6791.

Sincerely,

Jerry Wicktlam, P.G.

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Matt Meyer

Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A Emeryville, CA 94608

Mark Jonas Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

Alameda County Environmental Cleanup **Oversight Programs** (LOP and SLIC)

... 2005 ISSUE DATE: July

REVISION DATE: May 31, 2006

PREVIOUS REVISIONS: October 31, 2005,

December 16, 2005

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

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.

REQUIREMENTS

Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)

It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather

than scanned.

Signature pages and perjury statements must be included and have either original or electronic signature.

Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.

Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer

monitor.

Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

Submission Instructions

Obtain User Name and Password:

- a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - Send an e-mail to dehloptoxic@acgov.org

ii) Send a fax on company letterhead to (510) 337-9335, to the attention of: ftp Site Coordinator.

- b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- Upload Files to the ftp Site

a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org

(i) Note: Netscape and Firefox browsers will not open the FTP site.

b) Click on File, then on Login As.

c) Enter your User Name and Password. (Note: Both are Case Sensitive.)

d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.

- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- Send E-mail Notifications to the Environmental Cleanup Oversight Programs

a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.

b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)

The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload)



APPENDIX B

Standard Operating Procedures

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 auger or drill rig to advance a boring for the installation of a soil vapor sampling point. Once the boring is hand augered to the final depth, a 6-inch slotted probe, capped on either end with brass or Swagelok fittings, is placed within 12-inches of number 2/16 filter sand (Figure A). Nylon tubing of ¼-inch inner-diameter of known length is attached to the probe. A 2-inch to 12-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 and topped with another 2-inch layer of unhydrated bentonite chips or concrete, depending if the boring will hold one probe or multiple probes. 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 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

Cambria

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.

STANDARD FIELD PROCEDURES FOR SOIL AND SOIL VAPOR SAMPLING

This document describes Conestoga-Rovers & Associates' standard field methods for soil and soil vapor sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

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

Soil Sampling

Soil samples are collected using lined samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the sampler. 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.

Sampling equipment is washed prior to and between samples to prevent cross-contamination. Trisodium phosphate or an equivalent EPA-approved detergent is used to wash equipment.

Sample Storage, Handling and Transport

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

Soil Vapor Sampling

Hand push soil vapor sampling method assures sample collection to shallow depths in most hydrogeologic environments. A hollow vapor probe 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 screws 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. 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.

STANDARD FIELD PROCEDURES FOR SOIL AND SOIL VAPOR SAMPLING CONT'D

Sample Storage, Handling and Transport

Samples are stored out of direct sunlight in coolers and transported under chain-of-custody to a state-certified analytic laboratory.

Field Screening

After collecting a vapor sample for laboratory analysis, Cambria often collects an additional vapor sample for field screening using a portable photo-ionization detector (PID), flame-ionization detector (FID), or GasTech combustible gas detector to measure volatile hydrocarbon vapor concentrations. These measurements are used along with the field observations, odors, stratigraphy and ground water depth to help select the best location for additional borings to be advanced during the field mobilization.

Grouting

The borings are filled to the ground surface with neat cement.



APPENDIX C

Soil Vapor Probe Construction Log



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

BORING/WELL LOG

| | OL T Ol-i | BORING/WELL NAME VP-1 | |
|------------------|---|------------------------------------|-------------------------|
| CLIENT NAME | Chen Tso Chiu | BURING/WELL NAME VF-1 | |
| JOB/SITE NAME | Chiu | DRILLING STARTED 17-Nov-06 | |
| LOCATION | 800 Franklin Street, Oakland, CA | DRILLING COMPLETED 17-Nov-06 | |
| PROJECT NUMBER_ | 589-1000 | WELL DEVELOPMENT DATE (YIELD) N | IA |
| DRILLER | Vironex | GROUND SURFACE ELEVATION N | lot Surveyed |
| DRILLING METHOD_ | Hollow-stem auger | | |
| BORING DIAMETER_ | 3-inch | SCREENED INTERVALS 5.5 to 6 fb | <u> </u> |
| LOGGED BY | C. Hernandez | DEPTH TO WATER (First Encountered) | NA $\underline{\nabla}$ |
| REVIEWED BY | M. Jonas | DEPTH TO WATER (Static) | NA ¥ |
| REMARKS | On Franklin St. in front of 800 Franklin St. building | | |

| REVIEWED BY REMARKS | | Jonas Franklin : | St. in fro | nt of 8 | DEPTH TO WATER (Static) 300 Franklin St. building | N/- | |
|---|-----------|---------------------|------------|----------------|--|------------------------|---|
| PID (ppm) BLOW COUNTS | SAMPLE ID | DEPTH (fbg) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (fbg) | WELL DIAGRAM |
| WELL LOG (PID) H:CHIL-O-1/BORING-1/CHILL SOIL VAPOR PROBES.GF7 DEFAULT.SOIL 2/13/07 | VP-1- 5.5 | 5 | | | Surface: 4-inches of concrete. Silty SAND (fill): Light brown; damp; 15% silt, 85% fine to medium sand; non-plastic; high estimated permeability. Note: Installed soil vapor probe VP-1 to 6 fbg. See Figure 3 for construction details of the soil vapor probe. Soil vapor probe was sampled on 12/28/2006. | 6.0 | ✓ Portland Type I/II ✓ Hydrated Granular Bentonite 1.5 4 fbg ✓ 1/4-inch Nyflow tubing ✓ Dry Granular Bentonite 4 - fbg ✓ Monterey Sand #2/12 ✓ 6-inch Screened Vapor Probe Bottom of Boring @ 6 fbg |





Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-9700 Fax: 510-420-9170

| CLIENT NAME | Chen Tso Chiu | BORING/WELL NAME VP-2 | |
|-----------------|----------------------------------|---------------------------------------|----------|
| JOB/SITE NAME | Chiu | DRILLING STARTED 17-Nov-06 | |
| LOCATION | 800 Franklin Street, Oakland, CA | DRILLING COMPLETED 17-Nov-06 | |
| PROJECT NUMBER_ | 589-1000 | WELL DEVELOPMENT DATE (YIELD) NA | |
| DRILLER | Vironex | GROUND SURFACE ELEVATION Not Surveyed | |
| DRILLING METHOD | Hollow-stem auger | | |
| BORING DIAMETER | 3-inch | SCREENED INTERVALS 5.5 to 6 fbg | |
| LOGGED BY | C. Hernandez | DEPTH TO WATER (First Encountered) NA | <u>¥</u> |

DEPTH TO WATER (Static) NA REVIEWED BY M. Jonas On 8th St. in sidewalk in front of 800 Franklin St. building REMARKS CONTACT DEPTH (fbg) SAMPLE ID GRAPHIC LOG BLOW U.S.C.S. PID (ppm) EXTENT DEPTH (fbg) WELL DIAGRAM LITHOLOGIC DESCRIPTION Surface: 4-inches of Concrete. 0.3 Silty SAND (fill): Light brown; damp; 15% silt, 85% fine to medium sand; non-plastic; high estimated permeability. Portland Type 1/11 Hydrated Granular Bentonite 1.5 -0 4 fbg @3': Yellow-grey; 25% silt, 75% fine to medium sand. 1/4-inch Nyflow tubing ■ Dry Granular Bentonite 4 - 5 WELL LOG (PID) H:\CHIU-O~1\BORING~1\CHIU-SOIL VAPOR PROBES.GPJ DEFAULT.GDT 2/13/07 fbg 5 VP-2- 5.5 ■ Monterey Sand #2/12 6-inch Screened 6.0 Vapor Probe Bottom of Boring @ 6 fbg Installed soil vapor probe VP-1 to 6 fbg. See Figure 3 for construction details of the soil vapor probe. Soil Vapor probe was sampled on 12/28/2006.

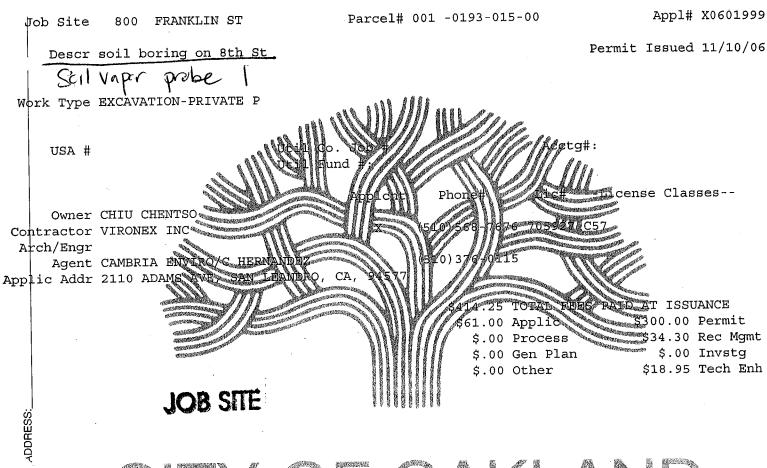


APPENDIX D

Permits

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263



CITYOFOAKLAND

DIST:

Date: 11/10/06 Amt Paid: \$1,105.05 By: DLR Register RO2 Receipt# 098234



EXCAVATION PERMIT

CIVIL ENGINEERING

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

PAGE 2 of 2

Sal vapor probe 1

Permit valid for 90 days from date of issuance.

| PERMIT-NUMBER X 0 6 0 1 9 9 3 | BOS Franklin St. Oakland, CA |
|--|--|
| 727.101. | HOUR EMERGENCY PHONE NUMBER |
| 11/17/04 11/17/06 (Pa | fmil not valid without 24-176d in-theory |
| CONTRACTOR'S LICENSE # AND CLASS C57 - 705927 | 1247727 |
| ATTENTION: 1- State law requires that the contractor/owner call Underground Service secured an inquiry identification number issued by USA. The USA to 2- 48 hours prior to starting work, you MUST C | 238-37 (|
| OWNER/BUILDER | |
| I hereby affirm that I am exempt from the Contractor's License Law for the following construct, alter, improve, demolish, or repair any structure, prior to its issuance, also provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) alleged exemption. Any violation of Section 7031.5 by any applicant for a permit sure I, as an owner of the property, or my employees with wages as their sole competer Professions Code: The Contractor's License Law does not apply to an owner of proprovided that such improvements are not intended or offered for sale. If however, the burden of proving that he did not build or improve for the purpose of sale). I, as owner of the property, am exempt from the sale requirements of the above of be performed prior to sale, (3) I have resided in the residence for the 12 months prior structures more than once during any three-year period. (Sec. 7044 Business and Professional Profession | sector, who builds or improves thereon, and who does such work immself or through his own employees, operty who builds or improvement is sold within one bearing completion, the owner-builder will have the luc to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two |
| Policy # & 992- 05 87 Company Name | of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code). Caravite State all not employ any person in any manner so as to become subject to the Worker's Compensation Laws |
| granted upon the express condition that the permittee shall be responsible for all claim perform the obligations with respect to street maintenance. The permittee shall, and | and become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is as and liabilities arising out of work performed under the permit or arising out of permittee's failure to by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers person for or on account of any bodily injuries, disease or illness or damage to persons and/or property consequence of permittee's failure to perform the obligations with respect to street maintenance. This Director of the Office of Planning and Building. |
| I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the this permit and agree to its requirements, and that the above information is true and continuous cont | Business and Professions Code and my license is in full force and effect (if contractor), that I have read correct under penalty of law. |
| Stematic of Permittee A regent for S Contractor D Owner | Date |
| DATE STREET LAST (SPECIAL PAVING DETAIL HOLE RESURFACED REQUIRED 0 YES: 0 NO (NO | EIMITED OPERATION AREA? VI-JAN D SYES D NO (7AM-9AM-& 4PM-6PM) D YES D NO |
| ISSUED BY DAT | TE ISSUED |

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

800 FRANKLIN ST Appl# X0601998 Job Site Parcel# 001 -0193-015-00 Permit Issued 11/10/06 Descr soil boring on Franklin St Work Type EXCAVATION-PRIVATE P USA # Owner CHIU CHENTSO Contractor VIRONEX INC Arch/Engr Agent CAMBRIA EN Applic Addr 2110 ADAM T ISSUANCE 300.00 Permit \$34.30 Rec Mgmt \$.00 Process \$.00 Gen Plan \$.00 Invstg \$.00 Other \$18.95 Tech Enh JOB SITE

CITYOFOAKLAND

Date: 11/10/06 Amt Paid: \$1,105.05 By: DLR Remister RO2 Receipt# 098234



EXCAVATION PERMIT

CIVIL ENGINEERI

PAGE 2 of 2 Son Vayor Drobe 2 Permit valid for 90 days

Permit valid for 90 days from date of iccurance

| 20.1(| 5.0120 | T entite valid for 30 C | lays nom date of issuance. |
|---|--|---|---|
| рвими приманен ХО | 6 0 <u>1</u> <u>9</u> <u>9</u> <u>8</u> | STITE ADDRESS/LOCATION STORY SOU Franklin St. | oakland, CA |
| APPROX. START DATE | APPROX, END DATE | 24-HOUR EMERGENCY PHONE NUMBER | |
| 11/17/06 | 11/17/06 | (Permit not valid without 24-Hour number) | |
| C57 - 70 | CLASS 5977 | CITY BUSINESS TAX # 27 | |
| secured an inquiry ide 2- 48 hours prior | nuffication number issued by USA. The to starting work, you MU | Service Alen (USA) two working days before excavating. Thi USA telephone number is 1-800-642-2444. Underground Servi UST CALL (510) 238-3651 to schedule an on certificate is required (waived for appr | inspection. |
| OWNER/BUILDER | · · · · · · · · · · · · · · · · · · · | | |
| construct, alter, improve, demolish, or r provisions of the Contractor's License leadleged exemption. Any violation of Sec I, as an owner of the property, or my Professions Code: The Contractor's License are not provided that such improvements are not burden of proving that he did not build of I, as owner of the property, am exem- be performed prior to sale, (3) I have re- structures more than once during any that I as owner of the property, am exem- | repair any structure, prior to its issuant two Chapter 9 (commencing with Section 7031.5 by any applicant for a perfect of the section of the purpose of sale). The section of the section | ollowing reason (Sec. 7031.5 Business and Professions Coduce, also requires the applicant for such permit to file a signe 7000) of Division 3 of the Business and Professions Code, rmit subjects the applicant to a civil penalty of not more that compensation, will do the work, and the structure is not interest of property who builds or improves thereon, and who does ever, the building or improvement is sold within one year of above due to: (1) I am improving my principal place of resimple to completion of the work, and (4) I have not claim and Professions Code). actors to construct the project, (Sec. 7044, Business and Province of the work of the contractor (5) licensed | ad statement that he is licensed pursuant to the or that he is exempt therefrom and the basis for the or \$500). The state of the state |
| Policy # & 342-1 | 25 87 Company Name e work for which this permit is issued | icate of Worker's Compensation Insurance, or a certified ed Caravite State i, I shall not employ any person in any manner so as to becomes. | |
| comply with such provisions or this perm granted upon the express condition that it perform the obligations with respect to st and employees, from and against any and sustained or arising in the construction of | nit shall be deemed revoked. This per ne permittee shall be responsible for al reet maintenance. The permittee shall all suits, claims, or actions brought be the work performed under the permit | u should become subject to the Worker's Compensation promit is issued pursuant to all provisions of Title 12 Chapter It claims and liabilities arising out of work performed under, and by acceptance of the permit agrees to defend, indemning any person for or on account of any bodily injuries, discator in consequence of permittee's failure to perform the obliby the Director of the Office of Planning and Building. | 12.12 of the Oakland Municipal Code. It is the permit or arising out of permittee's failure to fy, save and hold harmless the City, its officers are or illness or damage to persons and/or property |
| I hereby affirm that I am licensed under puties permit and agree to its requirements, | provisions of Chapter 9 of Division 3 of and that the above information is true | of the Business and Professions Code and my license is in f and correct under penalty of law. I //co/c | uil force and effect (if contractor), that I have read |
| DATE STREET LAST () s | PECIAL PAVING DETAIL REQUIRED? YES: NO | HOLIDAY: RESTRICTION? | IMITED OPERATION AREA? AM-9AM-& 4PM-6PM) - TYES - DNO |
| ISSUED BY | 9 | DATE ISSUED | |

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

| Job Site 800 FRANKLIN ST | Parcel# 001 -0193-015-00 | App1# OB060743 |
|---|--|--|
| Parky metas) reserve meters [two no fee with 370;368;F-800;-802;-804;-806] | th X0601998/1999] 8-374;-372; soil boring on Franklin St | Permit Issued 11/10/06 |
| For sail vapor probes | | S. waters at 6 |
| Nbr of days: 1 Effective: 11/17/06 | | of meters: 6 iration: 11/17/06 |
| Owner CHIU CHENTSO | Appacant Phone# Fig. | cense Classes |
| Contractor VIRONEX INC Arch/Engr Agent CAMBRIA ENVIRO/C HERNANDEZ | X (510) 568-7676 70592 | CS |
| applic Addr 2110 ADAMS AVE SAN LEANTRO, | CA, 945 77 5276.55 TOWAR FI \$61.00 Applic | ES PAID AT ISSUANCE \$180.00 Permit |
| | \$.00 Process \$.00 Gen Plan \$.00 Other | \$22.90 Rec Mgmt \$.00 Invstg \$12.65 Tech Ent |
| ADDRESS: | The control of the co | |
| ₽ JOB SIT | | |
| | | |
| DIST: | | |
| | | or whenever deviated |
| | | or whenever deviated |

TCP needs to be approved by Transportation Services every 30 days or whenever deviated from the previously approved plan.

| Applicant: | |
|------------|--|
| Issued by: | |

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Appl# X0700110 Parcel# 001 -0193-015-00 Job Site 800 FRANKLIN ST Permit Issued 01/23/07 Descr MONITORING WELL rebuild ONE MONITORING WELL TO BE INSTALLED ON FRANKLIN ST. RECORDED 10-7-96 96-256691 RE-RECORDED 10-31-97 Work Type EXCAVATION-PRIVATE P USA # cense Classes-Owner CHEN-TSO CHI Contractor WOODWARD DE Arch/Engr Agent CAMBRIA E Applic Addr P.O.BOX 9457 .00 Appli 300.00 Permit \$.00 Process 34.30 Rec Mgmt \$.00 Gen Plan \$.00 Invstg JOB SITE \$.00 Other \$18.95 Tech Enh CITY OF OAKLAND



APPENDIX E

Soil Vapor Sampling Field Data

CAMBRIA

SOIL VAPOR SAMPLING DATA SHEET

| ******************* | g Point ID: <u>VP-2</u> | | | |
|--|--|---|--|---------------------|
| Project Name: | ~ ^ · | Date: | 12/28/10 | |
| - | 589-1000-017 | _ Sampler: | | _ |
| | 800 Franklin St | | 1 | |
| | oaklund, (A | _ | | |
| Purge Volume | | | . | |
| Calculated Purge Vol | ume: 3 puzz Udum | us per | DtsC | |
| | T Y | Volume | Comments | 1 |
| Time | Flow Rate | volume | 16 IL tedlar bag | |
| 900 | | 1 | III in I will bar | |
| Sample Collection | .76 | | 779100 | |
| | 20 min | Summa Canister | 1D: 27960 | |
| Summa Canister Size | e: | Analysis: 3 | encene | |
| Time - Begin | | Time - End | 0 | Sampling |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time |
| 709 | 1-28 Hg | 1914 | <u> </u> | MINC |
| Notes: - 28 H | g pro to Samplin | \ | | |
| Flancontre | 1 = FC0042 | ر داد | | |
| 1 1000 (010) | 1 0 00 10 | · · · · · · · · · · · · · · · · · · · | | |
| | | | | |
| Soil Vapor Samplin | g Point ID: VP- | | / | |
| Soil Vapor Samplin Project Name: | 2) t | Date | : 12/20/06 | |
| · · | : Chiu | Sampler | : Ott/cm | |
| Project Name: | : Chiu | - | · MIZAT | |
| Project Name Project No | : Chiu | Sampler | · MIZAT | |
| Project Name: Project No: Site Address Purge Volume | : Chiu | Sampler PM | : <u>MJ</u> | |
| Project Name: Project No: Site Address Purge Volume | : Chiu | Sampler PM | · MIZAT | |
| Project Name: Project No: Site Address Purge Volume | : Chiu | Sampler PM | : <u>MJ</u> | |
| Project Name: Project No. Site Address Purge Volume Calculated Purge Volume | : Chiu : : : : olume: 3 puze Volur | Sampler PM nes por I | Comments I/AD IL Tedler | bag |
| Project Name: Project No: Site Address: Purge Volume Calculated Purge Volume Time | : Chiu : : : : olume: 3 puze Volur | Sampler PM nes por I | Comments I/AD IL Tedler | bag Jow contr |
| Project Name: Project No. Site Address: Purge Volume Calculated Purge Volume Time 940 Sample Collection | Spuze Volume: Spuze Volume: Flow Rate | Sampler PM Nes por I Volume | Comments // I Tedler | bag pow with |
| Project Name: Project No. Site Address: Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting | Spuze Volume: 3puze Volume Flow Rate | Sampler PM NeS por I Volume Summa Caniste | Comments VAD IL Tedler OF 10: 12366 | bag pow contr |
| Project Name: Project No. Site Address: Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting Summa Canister Size | Spuze Volume: 3puze Volume Flow Rate | Sampler PM NeS por I Volume Summa Caniste Analysis: | Comments // I Tedler | FCOO! |
| Project Name: Project No. Site Address Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting Summa Canister Siz | EDIUME: Spuze Volume: Spuze Volume: Spuze Volume: Spuze Volume: Spuze Volume: Spuze Volume: Sommer Volume: Somm | Sampler PM Volume Summa Caniste Analysis: | Comments VAD IL Tedler OF ID: 12366 Enzene | FCCO1 |
| Project Name: Project No. Site Address. Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting Summa Canister Siz Time - Begin Sampling | Spuze Volume: 3 puze Volume: 3 puze Volume: 30 min. ze: 16 Canister Vacuum | Sampler PM NeS Volume Summa Caniste Analysis: Time - End Sampling | Comments VAD IL TELLER OF ID: 12366 ENZERE Canister Vacuum | FCCO1 Sampling Time |
| Project Name: Project No. Site Address: Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting Summa Canister Siz Time - Begin Sampling | Spuze Value Flow Rate 30 min. ze: 1L Canister Vacuum -28 H3 | Sampler PM Volume Summa Caniste Analysis: Time - End Sampling | Comments I/AD IL Tedler IND: 12366 Enzene Canister Vacuum -5 Hg | Sampling Time |
| Project Name: Project No. Site Address: Purge Volume Calculated Purge Volume Time 940 Sample Collection Flow Control Setting Summa Canister Siz Time - Begin Sampling | Spuze Value Flow Rate 30 min. ze: 1L Canister Vacuum -28 H3 | Sampler PM Volume Summa Caniste Analysis: Time - End Sampling | Comments VAD IL TELLER OF ID: 12366 ENZERE Canister Vacuum | Sampling Time |

CAMBRIA

SOIL VAPOR SAMPLING DATA SHEET

| Soil Vapor Sampling | g Point ID: <u>\\P- - D\</u> \ | | | | |
|------------------------------|---------------------------------|-----------------|-----------------|------------------|--|
| Project Name: | Chiu | Date: | 12/28/00 | | |
| Project No: | 589-1000-017 | _ Sampler: | | - | |
| Site Address: | 800 Franklin 5 | PM: | MI | - | |
| | Gakland CA | ζ | | | |
| Purge Volume | | L _ | | | |
| Calculated Purge Vol | ume: Bypyggva 64 | Γ • . | | | |
| Time | Flow Rate | Volume | Comments | | |
| PROB 954 | | | 1/10 1L Jedler | Bag | |
| Sample Collection | | | | J | |
| | 30min | Summa Canister | ID:1448 | | |
| Summa Canister Size | | Analysis: Be | enzene | | |
| Time - Begin | | Time - End | | Sampling | |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time | |
| 957 | the stag 5 | 1002 | -5Hg | Smin | |
| Notes: | -27.5 Hg | Flow | Control= | | |
| | | . | FC 00892 | | |
| | | | 100092 | | |
| | g Point ID: | | | | |
| | | _ Date: | | • | |
| Project No: Site Address: | | Sampler: PM: | | | |
| Ollo Addiess. | | | | - | |
| Purgo Volumo | | | | | |
| Purge Volume | | | | | |
| Calculated Purge Vol | ume: | | | | |
| Time | Flow Rate | Volume · | Comments | | |
| | | | | - | |
| Sample Collection | | | | | |
| Flow Control Setting: | | Summa Canister | ID: | | |
| Summa Canister Size | | \ | | | |
| Time - Begin | | Time - End | T T | | |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Sampling Time | |
| | | | | | |
| Notes: | | | | | |
| | | | ~ | | |

SOIL VAPOR SAMPLING DATA SHEET

| Soil Vapor Sampling | Point ID: SYP | -1, ~ | | |
|-----------------------|---|----------------|-----------------|----------|
| Project Name: | CHIU | Date: | 7/25/67 | |
| Project No: | 581000 | Sampler: | c. Mccielland | |
| Site Address: | 800 Franklin St. | PM: | M. Jonas | |
| | Jakana, | .CA | | |
| Purge Volume | | | | |
| Calculated Purge Volu | ıme: | | | |
| Time | Flow Rate | Volume | Comments | |
| 8:37 | | 1/3 L | | |
| Sample Collection | | | | |
| Flow Control Setting: | 100 ml/min | Summa Canister | ID: 3288 | |
| Summa Canister Size | • | Analysis: | -15 | |
| Time - Begin | | Time - End | | Sampling |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time |
| 8:39 | 1 | 8:50 | -5 | 11min |
| Notes: | | | | |
| Initial Vaci | | | | |
| fillition once | WW12 - 28 | FC | 00320 | |
| Soil Vapor Sampling | Point ID: Stel Du | slicare | | |
| Project Name: | CHIU VP-1 | | 7/25/07 | • |
| Project No: | 58600 | Sampler: | c.m.c.iellanc | 4 |
| Site Address: | 800 Franklin | _ PM: | M. Jaras | - |
| | Cacaron | | | |
| Purge Volume | | | | |
| Calculated Purge Vol | ume: | | | |
| Time | Flow Rate | Volume | Comments | |
| 8:59 | | 1/3 L | | |
| Sample Collection | | | | |
| Flow Control Setting: | 100mL/min | Summa Canister | ID: 078 (| |
| Summa Canister Size | | Analysis: | 0-15 | |
| Time - Begin | | Time - End | | Sampling |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time |
| 9:01 | -27 | 9:09 | -5 | 8min. |

Notes:

FC00612

CAMBRIA

SOIL VAPOR SAMPLING DATA SHEET

| Soil Vapor Sampl | ing Point ID: SY=2 | -VP-2 N | | |
|---------------------|------------------------------------|--------------------|-------------------------|---------------------------------------|
| Project Nam | ie: CHIU | ON Dat | e: 7/25/07 | |
| | 10: 581000 | Sample | er: <u>c.M. Clellan</u> | d |
| Site Addres | is: <u>800 Franklih</u> Oakland | P | M: M. Jonas | |
| Purge Volume | | | | |
| Calculated Purge \ | Volume: | | | |
| Time | Flow Rate | Volume | Comments | |
| 9:36 | | 73 L | | · · · · · · · · · · · · · · · · · · · |
| Sample Collectio | <u>.</u> | | | |
| Flow Control Settin | ng: (00 mL/min· | _ Summa Canist | er ID: 2719 0-15 | <u></u> |
| Summa Canister S | Size: [U | Analysis: _ | 0-15 | , |
| Time - Begin | | Time - End | | Sampling |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time |
| 9:38 | -29.5 | 9:47 | -5 | Thin |
| Notes: | 100 | _ | | |
| | FC00485 | | | |
| | | <u></u> | | |
| Soil Vapor Samp | ling Point ID: | | | |
| Project Nan | ne: | | te: | |
| Project N | No: | | er: | |
| Site Addre | ss: | | M: | |
| Purge Volume | | | | |
| Calculated Purge | Volume: | | | |
| Time | Flow Rate | Volume | Comments | |
| | | | | |
| Sample Collection | on | | | |
| Flow Control Sett | ing: | Summa Canis | ter ID: | |
| Summa Canister | Size: | Analysis: | | |
| Time - Begin | | Time - End | | Sampling |
| Sampling | Canister Vacuum | Sampling | Canister Vacuum | Time |
| | | | | |
| Notes: | | | | |



APPENDIX F

Soil Vapor Analytical Laboratory Report

| | AIR | TOXICS | LTD. |
|---|-----------|--------------------|------------|
| W | AN ENVIRO | NMENTAL ANALYTICAL | LABORATORY |

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance 180 BLUE RAVINE ROAD, SUITE B with all 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 (916) 985-1000 FAX (916) 985-1020 shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, CHAIN-OF-CUSTODY RECORD defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related

FOLSOM, CA 95630-4719

| 'UNIIA | OL-COSTODI VICCOLID | to the c | ollection, handlin | a, or shipping of | samples. D.O.T. Hotline (800) 467-4922. | | | | |
|--------------|--|-----------|------------------------|-------------------|---|-------------|-------------|----------------------|----------------------|
| ontact Pe | rson Celina Hernand | ez | 0.100.100.11, 11.11.11 | | Project Info: | Turn Aro | und Lab Use | only Sunzed by: | VER |
| oniaci Pe | Cambra Environna | | P.O. # 589-1000-017 | | | 1/5/0 | 27 | | |
| ompany_ | 900 Holls St Steffing Fo | V Dean Al | & State CA | 7in 941008 | a 1 | Norma | Date: | -11010 | 4 |
| کد ddress) | 0420-3313 Fa | 100 | 420-91 | づみ | Project # 1/2/1 CCC - 1 | ☐ Rush | Pres | surization Gas | \$: |
| | | | | | Project Name Chiu-Oakland | specify | | (N ₂) He | |
| ollected | by: (Signature) Celun | | | | | С | anister Pr | essure/Vacuu | цm |
| Lab I.D. | Field Sample I.D. (Location) |) Can# | Date | Time | Analyses Requested | | itial Final | | inal (psi) |
| OIA | VP-2 | Tho | 12/28/00 | 914 | TOIS Berzene | 77 | 85 | 6.0 Hg 1 | 15.4PS |
| Zina Chine t | 1/0-1 | | 12/28/00 | 4 | 7015 Benzene | -2 | 85 | 5.54 | |
| 62A 03A | AP-1-DUP | luy | 12/20/06 | 1002 | 7015 Benzene 7015 Benzene | -27 | 125 -5 | 6.04 | |
| οЧΑ | TRIP | 343 | rpsilao | | | | | 29.044 | 4V |
| | | 24-2- | | | | | | <u> </u> |) |
| | | | | | | | | | 역 4세약 () 보고 Tu () |
| | | - | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | <u> </u> | | | | | | |
| 134 N. (4) | | | | (-iAug-) | Date/Time Notes: 1 | | | | |
| Retinquis | hed by: (signature) Date/Time | 110 | · · · · | by: (signature) | location 12/28/do | 100 | | | |
| Relinquis | hed by: (signature) Date/Time | | Received b | oy: (signature) | Date/Time | · | | | |
| Relinquis | hed by: (signature) Date/Time | | Received to | by: (signature) | Date/Time | | | | |
| | Shipper Name | Air Bil | (# 4) 4 (4) | Temp (| C) Condition Customer S | eals Intact | | ork Order # | |
| Lab Use | DHL 19416 | | | NA | GOOD Yes No | None | 06 | 31262 | 7_ |
| 1 Y 3 5 | シ ロト ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ | , , , , | | | | しし | | | 1 |



WORK ORDER #: 0612627

Work Order Summary

CLIENT:

Ms. Celina Hernandez

BILL TO: Ms. Celina Hernandez

Cambria Environmental Technology,

Cambria Environmental Technology, Inc.

Inc.

5900 Hollis Street

Suite A

Suite A

Emeryville, CA 94608

5900 Hollis Street

PHONE: FAX:

P.O. # 589-1000-017

DATE RECEIVED:

510-420-9170 12/29/2006

PROJECT #

589-1000-017 Chiu-Oakland

DATE COMPLETED:

01/12/2007

CONTACT:

Kyle Vagadori

| | | | RECEIPT |
|-----------|----------------|---------------------|------------|
| FRACTION# | NAME | TEST | VAC./PRES. |
| 01A | VP-2 | Modified TO-15/TICs | 6.0 "Hg |
| 01AA | VP-2 Duplicate | Modified TO-15/TICs | 6.0 "Hg |
| 02A | VP-1 | Modified TO-15/TICs | 5.5 "Hg |
| 03A | VP-1-DUP | Modified TO-15/TICs | 6.0 "Hg |
| 04A | TRIP | Modified TO-15/TICs | 29.0 "Hg |
| 05A | Lab Blank | Modified TO-15/TICs | NA |
| 06A | CCV | Modified TO-15/TICs | NA |
| 07A | LCS | Modified TO-15/TICs | NA |
| | | | |

CERTIFIED BY:

Linda d. Fruman

DATE: <u>01/12/07</u>

Laboratory Director

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



LABORATORY NARRATIVE Modified TO-15 Cambria Environmental Technology Workorder# 0612627

Four 1 Liter Summa Canister samples were received on December 29, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

| Requirement | TO-15 | ATL Modifications |
|-------------------------|-------------------------------|---|
| Daily CCV | +- 30% Difference | = 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

The Chain of Custody (COC) information for sample TRIP did not match the entry on the sample tag with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - 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 reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

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



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-2

Lab ID#: 0612627-01A

No Detections Were Found.

Client Sample ID: VP-2 Duplicate

Lab ID#: 0612627-01AA

No Detections Were Found.

Client Sample ID: VP-1

Lab ID#: 0612627-02A

No Detections Were Found.

Client Sample ID: VP-1-DUP

Lab ID#: 0612627-03A

No Detections Were Found.

Client Sample ID: TRIP

Lab ID#: 0612627-04A

No Detections Were Found.



Client Sample ID: VP-2 Lab ID#: 0612627-01A

| File Name: Dil. Factor: | f010917 2.53 | | Date of Collection: Date of Analysis: 1/ | |
|-------------------------------|----------------------|------------------|---|-------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Benzene | 1.3 | Not Detected | 4.0 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUN | DS | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Butane | | 106-97-8 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa | a Canister | | | |
| Surrogates | | %Recovery | | Method Limits |
| 1,2-Dichloroethane-d4 | | 94 | | 70-130 |
| Toluene-d8 | | 112 | | 70-130 |
| 4-Bromofluorobenzene | | 103 | | 70-130 |



Client Sample ID: VP-2 Duplicate

Lab ID#: 0612627-01AA

| File Name: DII. Factor: | f010921 2.53 | | Date of Collection: Date of Analysis: 1/ | Section 2 Company (Company) |
|------------------------------|----------------------|------------------|---|-----------------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Benzene | 1.3 | Not Detected | 4.0 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUND | s | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Butane | | 106-97-8 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summ | a Canister | | | |
| Surrogates | | %Recovery | | Method Limits |
| 1.2-Dichloroethane-d4 | | 101 | | 70-130 |
| Toluene-d8 | | 111 | | 70-130 |
| 4-Bromofluorobenzene | | 100 | | 70-130 |



Client Sample ID: VP-1 Lab ID#: 0612627-02A

| File Name: Dil. Factor: | f010918 2.47 | | Date of Collection: Date of Analysis: 1/ | 100000000000000000000000000000000000000 |
|------------------------------|----------------------|------------------|---|---|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Benzene | 1.2 | Not Detected | 3.9 | Not Detected |
| | TENTATIVELY IDEN | TIFIED COMPOUND | os | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Butane | | 106-97-8 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summ | a Canister | | | |
| Surrogates | | %Recovery | | Method Limits |
| 1,2-Dichloroethane-d4 | | 97 | | 70-130 |
| Toluene-d8 | | 110 | | 70-130 |
| 4-Bromofluorobenzene | | 99 | | 70-130 |



Client Sample ID: VP-1-DUP

Lab ID#: 0612627-03A

| File Name: Dil. Factor: | f010919 2.53 | | Date of Collection: Date of Analysis: 1/ | Charles of Automotive Charles |
|-------------------------------|-------------------|------------------|--|-------------------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Benzene | 1.3 | Not Detected | 4.0 | Not Detected |
| | TENTATIVELY IDEN | TIFIED COMPOUND | os | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Butane | | 106-97-8 | NA | Not Detected |
| Propane | | 7 4- 98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa | a Canister | | | Madhad |
| Surrogates | | %Recovery | | Method Limits |
| 1,2-Dichloroethane-d4 | | 98 | | 70-130 |
| Toluene-d8 | | 107 | | 70-130 |
| 4-Bromofluorobenzene | | 101 | | 70-130 |



Client Sample ID: TRIP Lab ID#: 0612627-04A

| File Name: Dil. Factor: | f010920 1.00 | | Date of Collection: Date of Analysis: 1/ | 80000.00 |
|-------------------------------|----------------------|------------------|---|-------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| | TENTATIVELY IDEN | TIFIED COMPOUN | os | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Butane | | 106-97-8 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa | Canister | | | |
| Surrogates | | %Recovery | | Method Limits |
| 1,2-Dichloroethane-d4 | | 101 | | 70-130 |
| Toluene-d8 | | 105 | | 70-130 |
| 4-Bromofluorobenzene | | 96 | | 70-130 |



Client Sample ID: Lab Blank

Lab ID#: 0612627-05A

| MO | MODIFIED ETA METHOD 10-13 GCM3 FCEE SCAN | | | | |
|--------------------------------|--|------------------|--|-------------------|--|
| File Name: Dil. Factor: | f010906 1.00 | | Date of Collection: NA Date of Analysis: 1/9/07 01:21 PM | | |
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) | |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected | |
| | TENTATIVELY IDEN | ITIFIED COMPOUND | S | | |
| Compound - | | CAS Number | Match Quality | Amount ppbv | |
| Isobutane | | 75-28-5 | NA | Not Detected | |
| Butane | | 106-97-8 | NA | Not Detected | |
| Propane | | 74-98-6 | NA | Not Detected | |
| Container Type: NA - Not Appli | cable | | | | |
| | | | | Method | |
| Surrogates | | %Recovery | | Limits | |
| 1,2-Dichloroethane-d4 | | 96 | | 70-130 | |
| Toluene-d8 | | 109 | | 70-130 | |
| 4-Bromofluorobenzene | | 100 | | 70-130 | |



4-Bromofluorobenzene

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV Lab ID#: 0612627-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: f010903 | Date of Collection: NA |
|--------------------|-----------------------------------|
| | |
| | |
| | |
| | |
| Dil Factori 1 00 | |
| | |
| Dil. Factor: 1.00 | Date of Analysis: 1/9/07 10:46 AM |
| | |
| | |

| Compound | | %Recovery |
|-------------------------------------|-----------|-----------|
| Benzene | | 101 |
| Container Type: NA - Not Applicable | | |
| | | Method |
| Surrogates | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 108 | 70-130 |

103

70-130



Client Sample ID: LCS Lab ID#: 0612627-07A

| CONTRACTOR | CANADA CONTRACTOR CONTRACTOR AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT |
|--|--|
| | ENTER TO SEE THE SECOND |
| | The state of the s |
| | |
| File Name: f010904 | Date of Collection: NA |
| File Name: f010904 | Date of Concolloit, IIA |
| The second secon | A CONTRACTOR CONTRACTO |
| CONTRACTOR | |
| Dil. Factor: | Date of Analysis: 1/9/07 11:38 AM |
| LIMITACION | Date Of Allaivala, 1/3/0/ 11,30 AM |
| | The state of the s |
| | |
| | |

| Compound | %Recovery | |
|-------------------------------------|-----------|--------|
| Benzene | | 97 |
| Container Type: NA - Not Applicable | | Method |
| Surrogates | %Recovery | Limits |
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



CHAIN-OF-CUSTODY RECORD

Relinquished by: (signature) Date:Time

Shippe: Name

Date:Time

Relinquished by: (signature)

DHY

Lab LD.

MA

Lab.

Use

Only

Project Manager Mark Jonas

Collected by: (Print and Sign) Christina Mclelland

Field Sample I.D. (Location)

Company Conestoga-Rovers 24-550c. CARCLE Lland @Cra

Address 5900 Hollis St. 44 City Enveryable State A Zip 94608

Sample Transportation Notice

Fax (510)420-9170

Can #

3288

6781

7/25/07Received by: (signature)

יו:בס

Air Bill #

22675758652

Pediriquishing signature on this document indicates that sample is being shipped in compliance with 180 BLUE RAVINE ROAD, SUITE B all applicable loca., State, Federal, national, and international laws, regulations and ordinances of any kind. Air loxes Limited assumes no liability with respect to t or these samples. Relinquishing signature also indicates agreand indemnify Air Toxics Limited against any claim, demand, or collection, handling, or snipping of samples, D.O.T. Hottine (800)

Project Info:

Project #

Time

9:38

Date

Received by: (signature) Date/Time

Received by: (signature) Date/Time

Temp (°C)

MA

Condition

of Collection of Collection

Project Name C

EOLSON CA 95630,4749

| he collection, handling or shippin percent to note harmless, defend action, of any kind, related to the § 467-4922 | į (20°11 | 5) 985-10 | | ge <u> </u> | | |
|---|----------------------|-----------|----------------------------------|--------------------|------------|--|
| | Turn Around Time: | | Lab Like Only Pressurized by: "" | | | |
| | 🔏 Normal | | Date: <u>7/2-7/2-7</u> | | | |
| 31000 | 🖵 Aush | | Pressurization Gas: | | | |
| niu | 20CQII/ | | (N ₂) He | | | |
| Canister Pressure/Vacuum | | | | | | |
| Analyses Requested | _ | Initial | Final | Receipt | Final (ps) | |
| -15 FUIT VOC " | ret | -28 | -5 | 5.04 | 15,005, | |
| & Tics: isobutane -27 -5 (0%) | | | | | | |
| butanel | | -29.5 | <u>-\$</u> | 3.5"# * | | |
| propore for | | | | | | |
| all samples | | | | · | | |
| | | | · | <u>:</u> | | |
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| | | | · | | | |
| | | | | | <u> </u> | |
| Notes: | | | | | | |

Custody Scals MECK

None

Yes No

Work Order #

WORK ORDER #: 0707462R1

Work Order Summary

CLIENT:

Ms. Christina McClelland

BILL TO:

Ms. Christina McClelland

Conestoga-Rovers Associates (CRA)

Conestoga-Rovers Associates (CRA)

RECEIPT

5900 Hollis Street

5900 Hollis Street Suite A

Suite A

Emeryville, CA 94608

Emeryville, CA 94608

PHONE: FAX:

510-420-3309

P.O. #

510-420-9170

PROJECT #

581000 Chiu

DATE RECEIVED: -

07/26/2007

CONTACT:

Kyle Vagadori

DATE COMPLETED:

08/07/2007

DATE REISSUED:

08/14/2007

| | | | ALL CESTS I |
|----------------|--------------------|---------------------|-------------|
| FRACTION# | NAME | <u>TEST</u> | VAC./PRES. |
| 01A | VP-1 | Modified TO-15/TICs | 5.0 "Hg |
| 02A | VP-1 Duplicate | Modified TO-15/TICs | 6.0 "Hg |
| 03A | VP-2 | Modified TO-15/TICs | 3.5 "Hg |
| 03AA | VP-2 Lab Duplicate | Modified TO-15/TICs | 3.5 "Hg |
| 04A(cancelled) | Trip Blank | Modified TO-15/TICs | |
| 05A | Lab Blank | Modified TO-15/TICs | NA |
| 06A | CCV | Modified TO-15/TICs | NA |
| 07A | LCS | Modified TO-15/TICs | NA |
| | | | |

CERTIFIED BY:

Sinda d. Fruman

08/16/07 DATE:

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: 07/01/07, Expiration date: 06/30/08

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

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LABORATORY NARRATIVE Modified TO-15 Conestoga-Rovers Associates Workorder# 0707462R1



Four 1 Liter Summa Canister samples were received on July 26, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| Requirement | TO-15 | ATL Modifications |
|-------------------------|-------------------------------|---|
| Daily CCV | +- 30% Difference | = 30% Difference with two allowed out up to </=40%.; flag and narrate outliers</p |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Sample Trip Blank was cancelled per client's request.

THE WORK ORDER WAS REISSUED ON 8/14/07 TO AMEND IDENTIFICATION OF THE FOLLOWING SAMPLES VP-1, VP-1 DUPLICATE AND VP-2, PER CLIENT REQUEST.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:



- B Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
 - 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 reporting limit.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.

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



Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-1

Lab ID#: 0707462R1-01A

| | Rpt. Limit | Amount | Rpt. Limit | Amount |
|----------------------------------|------------|--------|------------|---------|
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| 2-Butanone (Methyl Ethyl Ketone) | 1.2 | 3.3 | 3.6 | 9.6 |
| 2,2,4-Trimethylpentane | 1.2 | 2.7 | 5.6 | 12 |

Client Sample ID: VP-1 Duplicate

Lab ID#: 0707462R1-02A

| | Rpt. Limit | Amount | Rpt. Limit | Amount | |
|------------------------|------------|--------|------------|---------|---|
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) | _ |
| m,p-Xylene | 1.3 | 1.4 | 5.5 | 6.0 | |
| 1,2,4-Trimethylbenzene | 1.3 | 1.6 | 6.2 | 7.7 | |

Client Sample ID: VP-2

Lab ID#: 0707462R1-03A

| | Rpt. Limit | Amount | Rpt. Limit | Amount |
|-------------------|------------|--------|------------|---------|
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| Freon 12 | 1.1 | 6.8 | 5.7 | 34 |
| Acetone | 4.6 | 12 | 11 | 27 |
| Tetrachloroethene | 1.1 | 1.3 | 7.8 | 8.9 |

Client Sample ID: VP-2 Lab Duplicate

Lab ID#: 0707462R1-03AA

| | Rɒt. Limit (ppbv) | Amount | Rpt. Limit | Amount |
|------------------------|----------------------|--------|------------|---------|
| Compound | | (ppbv) | (uG/m3) | (uG/m3) |
| Freon 12 | 1.1 | 6.4 | 5.7 | 32 |
| Acetone | 4.6 | 12 | 11 | 28 |
| Tetrachloroethene | 1.1 | 1.7 | 7.8 | 12 |
| 1,2,4-Trimethylbenzene | 1.1 | 1.2 | 5.6 | 5.8 |



Client Sample ID: VP-1 Lab ID#: 0707462R1-01A

| File Name; Dil. Factor; | Company of the Compan | | | ion: 7/25/07 is: 8/6/07 04:49 AM | |
|----------------------------------|--|--------------|------------|-------------------------------------|--|
| | Rpt. Limit | Amount | Rpt. Limit | Amount | |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) | |
| Freon 12 | 1.2 | Not Detected | 6.0 | Not Detected | |
| Freon 114 | 1.2 | Not Detected | 8.4 | Not Detected | |
| Chloromethane | 4.8 | Not Detected | 10 | Not Detected | |
| Vinyl Chloride | 1.2 | Not Detected | 3.1 | Not Detected | |
| 1,3-Butadiene | 1.2 | Not Detected | 2.7 | Not Detected | |
| Bromomethane | 1.2 | Not Detected | 4.7 | Not Detected | |
| Chloroethane | 1.2 | Not Detected | 3.2 | Not Detected | |
| Freon 11 | 1.2 | Not Detected | 6.8 | Not Detected | |
| Ethanol | 4.8 | Not Detected | 9.1 | Not Detected | |
| Freon 113 | 1.2 | Not Detected | 9.3 | Not Detected | |
| 1,1-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected | |
| Acetone | 4.8 | Not Detected | 11 | Not Detected | |
| 2-Propanol | 4.8 | Not Detected | 12 | Not Detected | |
| Carbon Disulfide | 1.2 | Not Detected | 3.8 | Not Detected | |
| 3-Chloropropene | 4.8 | Not Detected | 15 | Not Detected | |
| Methylene Chloride | 1.2 | Not Detected | 4.2 | Not Detected | |
| Methyl tert-butyl ether | 1.2 | Not Detected | 4.4 | Not Detected | |
| trans-1,2-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected | |
| Hexane | 1.2 | Not Detected | 4.3 | Not Detected | |
| 1,1-Dichloroethane | 1.2 | Not Detected | 4.9 | Not Detected | |
| 2-Butanone (Methyl Ethyl Ketone) | 1.2 | 3.3 | 3.6 | 9.6 | |
| cis-1,2-Dichloroethene | 1.2 | Not Detected | 4.8 | Not Detected | |
| Tetrahydrofuran | 1.2 | Not Detected | 3.6 | Not Detected | |
| Chloroform | 1.2 | Not Detected | 5.9 | Not Detected | |
| 1,1,1-Trichloroethane | 1.2 | Not Detected | 6.6 | Not Detected | |
| Cyclohexane | 1.2 | Not Detected | 4.2 | Not Detected | |
| Carbon Tetrachloride | 1.2 | Not Detected | 7.6 | Not Detected | |
| 2,2,4-Trimethylpentane | 1.2 | 2.7 | 5.6 | 12 | |
| Benzene | 1.2 | Not Detected | 3.9 | Not Detected | |
| 1,2-Dichloroethane | 1.2 | Not Detected | 4.9 | Not Detected | |
| Heptane | 1.2 | Not Detected | 5.0 | Not Detected | |
| Trichloroethene | 1.2 | Not Detected | 6.5 | Not Detected | |
| 1,2-Dichloropropane | 1.2 | Not Detected | 5.6 | Not Detected | |
| 1,4-Dioxane | 4.8 | Not Detected | 17 | Not Detected | |
| Bromodichloromethane | 1.2 | Not Detected | 8.1 | Not Detected | |
| cis-1,3-Dichloropropene | 1.2 | Not Detected | 5.5 | Not Detected | |
| 4-Methyl-2-pentanone | 1.2 | Not Detected | 5.0 | Not Detected | |
| Toluene | 1.2 | Not Detected | 4.6 | Not Detected | |
| trans-1,3-Dichloropropene | 1.2 | Not Detected | 5.5 | Not Detected | |



Client Sample ID: VP-1 Lab ID#: 0707462R1-01A

| File Name: Dil. Factor; | 7080526 2,42 | | Date of Collection: 7 Date of Analysis: 8/6 | |
|---------------------------------|------------------|-------------------|---|------------------|
| 7 | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| 1,1,2-Trichloroethane | 1.2 | Not Detected | 6.6 | Not Detected |
| Tetrachloroethene | 1.2 | Not Detected | 8.2 | Not Detected |
| 2-Hexanone | 4.8 | Not Detected | 20 | Not Detected |
| Dibromochloromethane | 1.2 | Not Detected | 10 | Not Detected |
| 1,2-Dibromoethane (EDB) | -1.2 | Not Detected | 9.3 | Not Detected |
| Chlorobenzene | 1.2 | Not Detected | 5.6 | Not Detected |
| Ethyl Benzene | 1.2 | Not Detected | 5.2 | Not Detected |
| m,p-Xylene | 1.2 | Not Detected | 5.2 | Not Detected |
| o-Xylene | 1.2 | Not Detected | 5.2 | Not Detected |
| Styrene | 1.2 | Not Detected | 5.2 | Not Detected |
| Bromoform | 1.2 | Not Detected | 12 | Not Detected |
| Cumene | 1.2 | Not Detected | 5.9 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.2 | Not Detected | 8.3 | Not Detected |
| Propylbenzene | 1.2 | Not Detected | 5.9 | Not Detected |
| 4-Ethyltoluene | 1.2 | Not Detected | 5.9 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.2 | Not Detected | 5.9 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.2 | Not Detected | 5.9 | Not Detected |
| 1,3-Dichlorobenzene | 1.2 | Not Detected | 7.3 | Not Detected |
| 1,4-Dichlorobenzene | 1.2 | Not Detected | 7.3 | Not Detected |
| alpha-Chlorotoluene | 1.2 | Not Detected | 6.3 | Not Detected |
| 1,2-Dichlorobenzene | 1.2 | Not Detected | 7.3 | Not Detected |
| 1,2,4-Trichlorobenzene | 4.8 | Not Detected | 36 | Not Detected |
| Hexachlorobutadiene | 4.8 | Not Detected | 52 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUNDS | | |
| | | | | Amount |
| Compound | | CAS Number | Match Quality | ppbv |
| Butane | | 106-97-8 | NA | Not Detected |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa C | Canister | | | Billio Alle e el |
| Surrogates | | %Recovery | | Method Limits |
| Toluene-d8 | | 90 | | 70-130 |
| 1,2-Dichloroethane-d4 | | 108 | | 70-130 |
| ., | | 98 | | 70-130 |



Client Sample ID: VP-1 Duplicate

Lab ID#: 0707462R1-02A

| File Name: Dil. Factor: | 7080527 2.53 | | ate of Collection: Date of Analysis: 8 | |
|----------------------------------|-------------------|------------------|---|-------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
| Freon 12 | 1.3 | Not Detected | 6.2 | Not Detected |
| Freon 114 | 1.3 | Not Detected | 8.8 | Not Detected |
| Chloromethane | 5.1 | Not Detected | 10 | Not Detected |
| Vinyl Chloride | 1.3 | Not Detected | 3.2 | Not Detected |
| 1,3-Butadiene | 1.3 | Not Detected | 2.8 | Not Detected |
| Bromomethane | 1.3 | Not Detected | 4.9 | Not Detected |
| Chloroethane | 1.3 | Not Detected | 3.3 | Not Detected |
| Freon 11 | 1.3 | Not Detected | 7.1 | Not Detected |
| Ethanol | 5.1 | Not Detected | 9.5 | Not Detected |
| Freon 113 | 1.3 | Not Detected | 9.7 | Not Detected |
| 1,1-Dichloroethene | 1.3 | Not Detected | 5.0 | Not Detected |
| Acetone | 5.1 | Not Detected | 12 | Not Detected |
| 2-Propanol | 5.1 | Not Detected | 12 | Not Detected |
| Carbon Disulfide | 1.3 | Not Detected | 3.9 | Not Detected |
| 3-Chloropropene | 5.1 | Not Detected | 16 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.4 | Not Detected |
| Methyl tert-butyl ether | 1.3 | Not Detected | 4.6 | Not Detected |
| trans-1,2-Dichloroethene | 1.3 | Not Detected | 5.0 | Not Detected |
| Hexane | 1.3 | Not Detected | 4.4 | Not Detected |
| 1,1-Dichloroethane | 1.3 | Not Detected | 5.1 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.3 | Not Detected | 3.7 | Not Detected |
| cis-1,2-Dichloroethene | 1.3 | Not Detected | 5.0 | Not Detected |
| Tetrahydrofuran | 1.3 | Not Detected | 3.7 | Not Detected |
| Chloroform | 1.3 | Not Detected | 6.2 | Not Detected |
| 1,1,1-Trichloroethane | 1.3 | Not Detected | 6.9 | Not Detected |
| Cyclohexane | 1.3 | Not Detected | 4.4 | Not Detected |
| Carbon Tetrachloride | 1.3 | Not Detected | 8.0 | Not Detected |
| 2,2,4-Trimethylpentane | 1.3 | Not Detected | 5.9 | Not Detected |
| Benzene | 1.3 | Not Detected | 4.0 | Not Detected |
| 1,2-Dichloroethane | 1.3 | Not Detected | 5.1 | Not Detected |
| Heptane | 1.3 | Not Detected | 5.2 | Not Detected |
| Trichloroethene | 1.3 | Not Detected | 6.8 | Not Detected |
| 1,2-Dichloropropane | 1.3 | Not Detected | 5.8 | Not Detected |
| 1,4-Dioxane | 5.1 | Not Detected | 18 | Not Detected |
| Bromodichloromethane | 1.3 | Not Detected | 8.5 | Not Detected |
| cis-1,3-Dichloropropene | 1.3 | Not Detected | 5.7 | Not Detected |
| 4-Methyl-2-pentanone | 1.3 | Not Detected | 5.2 | Not Detected |
| Toluene | 1.3 | Not Detected | 4.8 | Not Detected |
| trans-1,3-Dichloropropene | 1.3 | Not Detected | 5.7 | Not Detected |



Client Sample ID: VP-1 Duplicate

Lab ID#: 0707462R1-02A

| file Name: Dil. Factor: | 7080527 2.53 | | Date of Collection: 7 Date of Analysis: 8/6 | |
|-------------------------------|------------------|-------------------|--|------------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| I,1,2-Trichloroethane | 1.3 | Not Detected | 6.9 | Not Detected |
| etrachloroethene | 1.3 | Not Detected | 8.6 | Not Detected |
| 2-Hexanone | 5.1 | Not Detected | 21 | Not Detected |
| Dibromochloromethane | 1.3 | Not Detected | 11 | Not Detected |
| 1,2-Dibromoethane (EDB) | 1.3 | Not Detected | 9.7 | Not Detected |
| Chlorobenzene | 1.3 | Not Detected | 5.8 | Not Detected |
| Ethyl Benzene | 1.3 | Not Detected | 5.5 | Not Detected |
| n,p-Xylene | 1.3 | 1.4 | 5.5 | 6.0 |
| o-Xylene | 1.3 | Not Detected | 5.5 | Not Detected |
| Styrene | 1.3 | Not Detected | 5.4 | Not Detected |
| Bromoform | 1.3 | Not Detected | 13 | Not Detected |
| Cumene | 1.3 | Not Detected | 6.2 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.3 | Not Detected | 8.7 | Not Detected |
| Propylbenzene | 1.3 | Not Detected | 6.2 | Not Detected |
| 4-Ethyltoluene | 1.3 | Not Detected | 6.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.3 | Not Detected | 6,2 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.3 | 1.6 | 6.2 | 7.7 |
| 1,3-Dichlorobenzene | 1.3 | Not Detected | 7.6 | Not Detected |
| 1,4-Dichlorobenzene | 1.3 | Not Detected | 7.6 | Not Detected |
| alpha-Chlorotoluene | 1.3 | Not Detected | 6.5 | Not Detected |
| 1,2-Dichlorobenzene | 1.3 | Not Detected | 7.6 | Not Detected |
| 1,2,4-Trichlorobenzene | 5.1 | Not Detected | 38 | Not Detected |
| Hexachlorobutadiene | 5.1 | Not Detected | 54 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUNDS | | |
| | | | | Amount |
| Compound | | CAS Number | Match Quality | ppbv |
| Butane | | 106-97-8 | NA | Not Detected |
| Isobutane | | 75 - 28-5 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa | Canister | | , | |
| Surrogates | | %Recovery | | Method Limits |
| Toluene-d8 | | 89 | | 70-130 |
| | | | | |
| 1,2-Dichloroethane-d4 | | 108 | | 70-130 |



Client Sample ID: VP-2 Lab ID#: 0707462R1-03A

| MODIFIED EFA METHOD TO-13 GCMB PUBLISCAN | | | | | |
|--|-----------------|--------------|--|--------------|--|
| File Name: Dil. Factor: | 7080528 2.29 | | Date of Collection: Date of Analysis: 8 | | |
| | Rpt. Limit | Amount | Rpt. Limit | Amount | |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) | |
| Freon 12 | 1.1 | 6.8 | 5.7 | 34 | |
| Freon 114 | 1.1 | Not Detected | 8.0 | Not Detected | |
| Chloromethane | 4.6 | Not Detected | 9.4 | Not Detected | |
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected | |
| 1,3-Butadiene | 1.1 | Not Detected | 2.5 | Not Detected | |
| Bromomethane | 1.1 | Not Detected | 4.4 | Not Detected | |
| Chloroethane | 1.1 | Not Detected | 3.0 | Not Detected | |
| Freon 11 | 1.1 | Not Detected | 6.4 | Not Detected | |
| Ethanol | 4.6 | Not Detected | 8.6 | Not Detected | |
| Freon 113 | 1.1 | Not Detected | 8.8 | Not Detected | |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected | |
| Acetone | 4.6 | 12 | 11 | 27 | |
| 2-Propanol | 4.6 | Not Detected | 11 | Not Detected | |
| Carbon Disulfide | 1.1 | Not Detected | 3.6 | Not Detected | |
| 3-Chloropropene | 4.6 | Not Detected | 14 | Not Detected | |
| Methylene Chloride | 1.1 | Not Detected | 4.0 | Not Detected | |
| Methyl tert-butyl ether | 1.1 | Not Detected | 4.1 | Not Detected | |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected | |
| Hexane | 1.1 | Not Detected | 4.0 | Not Detected | |
| 1,1-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected | |
| 2-Butanone (Methyl Ethyl Ketone) | 1.1 | Not Detected | 3.4 | Not Detected | |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected | |
| Tetrahydrofuran | 1.1 | Not Detected | 3.4 | Not Detected | |
| Chloroform | 1.1 | Not Detected | 5.6 | Not Detected | |
| 1,1,1-Trichloroethane | 1.1 | Not Detected | 6.2 | Not Detected | |
| Cyclohexane | 1.1 | Not Detected | 3.9 | Not Detected | |
| Carbon Tetrachloride | 1.1 | Not Detected | 7.2 | Not Detected | |
| 2,2,4-Trimethylpentane | 1.1 | Not Detected | 5.3 | Not Detected | |
| Benzene | 1.1 | Not Detected | 3.6 | Not Detected | |
| 1,2-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected | |
| Heptane | 1.1 | Not Detected | 4.7 | Not Detected | |
| Trichloroethene | 1.1 | Not Detected | 6.2 | Not Detected | |
| 1,2-Dichloropropane | 1.1 | Not Detected | 5.3 | Not Detected | |
| 1,4-Dioxane | 4.6 | Not Detected | 16 | Not Detected | |
| Bromodichloromethane | 1.1 | Not Detected | 7.7 | Not Detected | |
| cis-1,3-Dichloropropene | 1.1 | Not Detected | 5.2 | Not Detected | |
| 4-Methyl-2-pentanone | 1.1 | Not Detected | 4.7 | Not Detected | |
| Toluene | 1.1 | Not Detected | 4.3 | Not Detected | |
| trans-1,3-Dichloropropene | 1.1 | Not Detected | 5.2 | Not Detected | |
| . ' ' | | | | | |



Client Sample ID: VP-2 Lab ID#: 0707462R1-03A

| File Name: Dil. Factor: | 7080528 2.29 | | Date of Collection: 7 Date of Analysis: 8/6 | |
|-------------------------------|------------------|-------------------|--|--------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| 1,1,2-Trichloroethane | 1.1 | Not Detected | 6.2 | Not Detected |
| Tetrachloroethene | 1.1 | 1.3 | 7.8 | 8.9 |
| 2-Hexanone | 4.6 | Not Detected | 19 | Not Detected |
| Dibromochloromethane | 1.1 | Not Detected | 9.8 | Not Detected |
| 1,2-Dibromoethane (EDB) | 1.1 | Not Detected | 8.8 | Not Detected |
| Chlorobenzene | 1.1 | Not Detected | 5.3 | Not Detected |
| Ethyl Benzene | 1.1 | Not Detected | 5.0 | Not Detected |
| m,p-Xylene | 1.1 | Not Detected | 5.0 | Not Detected |
| o-Xylene | 1.1 | Not Detected | 5.0 | Not Detected |
| Styrene | 1.1 | Not Detected | 4.9 | Not Detected |
| Bromoform | 1.1 | Not Detected | 12 | Not Detected |
| Cumene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.1 | Not Detected | 7.9 | Not Detected |
| Propylbenzene | 1.1 | Not Detected | 5.6 | Not Detected |
| 4-Ethyltoluene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,3-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| 1,4-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| alpha-Chlorotoluene | 1.1 | Not Detected | 5.9 | Not Detected |
| 1,2-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| 1,2,4-Trichlorobenzene | 4.6 | Not Detected | 34 | Not Detected |
| Hexachlorobutadiene | 4.6 | Not Detected | 49 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUNDS | | |
| | | | | Amount |
| Compound | | CAS Number | Match Quality | ppbv |
| Butane | | 106-97-8 | NA | Not Detected |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: 1 Liter Summa | Canister | | | Method |
| Surrogates | <u> </u> | %Recovery | | Limits |
| Toluene-d8 | | 83 | | 70-130 |
| 1,2-Dichloroethane-d4 | | 106 | | 70-130 |
| 4-Bromofluorobenzene | • | 107 | | 70-130 |



Client Sample ID: VP-2 Lab Duplicate

Lab ID#: 0707462R1-03AA

| File Name: Dil. Factor: | 7080529 2.29 | | Date of Collection: Date of Analysis: 8 | |
|----------------------------------|-----------------|--------------|--|--------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| Freon 12 | 1.1 | 6.4 | 5.7 | 32 |
| Freon 114 | 1.1 | Not Detected | 8.0 | Not Detected |
| Chloromethane | 4.6 | Not Detected | 9.4 | Not Detected |
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,3-Butadiene | 1.1 | Not Detected | 2.5 | Not Detected |
| Bromomethane | 1.1 | Not Detected | 4.4 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 3.0 | Not Detected |
| Freon 11 | 1.1 | Not Detected | 6.4 | Not Detected |
| Ethanol | 4.6 | Not Detected | 8.6 | Not Detected |
| Freon 113 | 1.1 | Not Detected | 8.8 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Acetone | 4.6 | 12 | 11 | 28 |
| 2-Propanol | 4.6 | Not Detected | 11 | Not Detected |
| Carbon Disulfide | 1.1 | Not Detected | 3.6 | Not Detected |
| 3-Chloropropene | 4.6 | Not Detected | 14 | Not Detected |
| Methylene Chloride | 1.1 | Not Detected | 4.0 | Not Detected |
| Methyl tert-butyl ether | 1.1 | Not Detected | 4.1 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Hexane | 1.1 | Not Detected | 4.0 | Not Detected |
| 1,1-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.1 | Not Detected | 3.4 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| Tetrahydrofuran | 1.1 | Not Detected | 3.4 | Not Detected |
| Chloroform | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,1,1-Trichloroethane | 1.1 | Not Detected | 6.2 | Not Detected |
| Cyclohexane | 1.1 | Not Detected | 3.9 | Not Detected |
| Carbon Tetrachloride | 1.1 | Not Detected | 7.2 | Not Detected |
| 2,2,4-Trimethylpentane | 1.1 | Not Detected | 5.3 | Not Detected |
| Benzene | 1.1 | Not Detected | 3.6 | Not Detected |
| 1,2-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected |
| Heptane | 1.1 | Not Detected | 4.7 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 6.2 | Not Detected |
| 1,2-Dichloropropane | 1.1 | Not Detected | 5.3 | Not Detected |
| 1,4-Dioxane | 4.6 | Not Detected | 16 | Not Detected |
| Bromodichloromethane | 1.1 | Not Detected | 7.7 | Not Detected |
| cis-1,3-Dichloropropene | 1.1 | Not Detected | 5.2 | Not Detected |
| 4-Methyl-2-pentanone | 1.1 | Not Detected | 4.7 | Not Detected |
| Toluene | 1.1 | Not Detected | 4.3 | Not Detected |
| trans-1,3-Dichloropropene | 1.1 | Not Detected | 5.2 | Not Detected |



Client Sample ID: VP-2 Lab Duplicate Lab ID#: 0707462R1-03AA

| File Name: Dil. Factor: | 7080529 2.29 | | Date of Collection: 7 Date of Analysis: 8/6 | |
|--|--|-------------------|---|--------------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| 1,1,2-Trichloroethane | 1.1 | Not Detected | 6.2 | Not Detected |
| Tetrachloroethene | 1.1 | 1.7 | 7.8 | 12 |
| 2-Hexanone | 4.6 | Not Detected | 19 | Not Detected |
| Dibromochloromethane | 1.1 | Not Detected | 9.8 | Not Detected |
| 1,2-Dibromoethane (EDB) | 1.1 | Not Detected | - 8.8 | Not Detected |
| Chlorobenzene | 1.1 | Not Detected | 5.3 | Not Detected |
| Ethyl Benzene | 1.1 | Not Detected | 5.0 | Not Detected |
| n,p-Xylene | 1.1 | Not Detected | 5.0 | Not Detected |
| o-Xylene | 1.1 | Not Detected | 5.0 | Not Detected |
| Styrene | 1.1 | Not Detected | 4.9 | Not Detected |
| Bromoform | 1.1 | Not Detected | 12 | Not Detected |
| Cumene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.1 | Not Detected | 7.9 | Not Detected |
| Propylbenzene | 1.1 | Not Detected | 5.6 | Not Detected |
| 4-Ethyltoluene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.1 | Not Detected | 5.6 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.1 | 1.2 | 5.6 | 5.8 |
| 1,3-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| 1,4-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| alpha-Chlorotoluene | 1.1 | Not Detected | 5.9 | Not Detected |
| 1,2-Dichlorobenzene | 1.1 | Not Detected | 6.9 | Not Detected |
| 1,2,4-Trichlorobenzene | 4.6 | Not Detected | 34 | Not Detected |
| Hexachlorobutadiene | 4.6 | Not Detected | 49 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUNDS | | |
| Compound | | CAS Number | Match Quality | Amount ppbv |
| Butane | | 106-97-8 | NA | Not Detected |
| Isobutane | | 75-28-5 | NA | Not Detected |
| | | 74-98-6 | NA | Not Detected |
| Propane Container Type: 1 Liter Summa | Canister | 74-98-6 | NA | Not Detect Method |
| Surrogates | ······································ | %Recovery | | Limits |
| Toluene-d8 | | 89 | | 70-130 |
| 1,2-Dichloroethane-d4 | | 120 | | 70-130 |
| 4-Bromofluorobenzene | | 106 | | 70-130 |



Client Sample ID: Lab Blank Lab ID#: 0707462R1-05A

| Compound (ppbv) (ppbv) (uG/m3) (u Freon 12 0.50 Not Detected 2.5 Not 1 Freon 114 0.50 Not Detected 3.5 Not 1 Chloromethane 2.0 Not Detected 4.1 Not Vinyl Chloride 0.50 Not Detected 1.3 Not 1,3-Butadiene 0.50 Not Detected 1.1 Not Bromomethane 0.50 Not Detected 1.9 Not Chloroethane 0.50 Not Detected 1.9 Not Chloroethane 0.50 Not Detected 1.3 Not Ethanol 2.0 Not Detected 2.8 Not Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 4.8 Not Acetone 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 <th>nount G/m3)</th> | nount G/m3) |
|--|----------------|
| Freon 12 0.50 Not Detected 2.5 Not Freon 114 0.50 Not Detected 3.5 Not Chloromethane 2.0 Not Detected 4.1 Not Vinyl Chloride 0.50 Not Detected 1.3 Not 1,3-Butadiene 0.50 Not Detected 1.9 Not Bromomethane 0.50 Not Detected 1.9 Not Chloroethane 0.50 Not Detected 1.9 Not Chloroethane 0.50 Not Detected 2.8 Not Freon 11 0.50 Not Detected 2.8 Not Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 1.6 Not 3-Chloropropene 2.0 | G/m3) |
| Freon 114 0.50 Not Detected 3.5 Not Chloromethane 2.0 Not Detected 4.1 Not Vinyl Chloride 0.50 Not Detected 1.3 Not 1,3-Butadiene 0.50 Not Detected 1.1 Not Bromomethane 0.50 Not Detected 1.3 Not Chloroethane 0.50 Not Detected 1.3 Not Freon 11 0.50 Not Detected 2.8 Not Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2.0 Not Detected 2.0 Not 2-Propanol 2.0 Not Detected 4.8 Not 2-Propanol Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 1.6 Not Methylene Chloride | |
| Chloromethane 2.0 Not Detected 4.1 Not Vinyl Chloride 1,3-Butadiene 0.50 Not Detected 1.3 Not 1,3-Butadiene Bromomethane 0.50 Not Detected 1.1 Not Detected Chloroethane 0.50 Not Detected 1.9 Not Chloroethane Freon 11 0.50 Not Detected 2.8 Not Ethanol Ethanol 2.0 Not Detected 3.8 Not Ethanol Freon 113 0.50 Not Detected 3.8 Not Detected 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Detected Acetone 2.0 Not Detected 4.8 Not Carbon Disulfide 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 4.9 Not Not Detected 4.9 Not Not Detected 1.6 Not Not Detected 1.6 Not Not Detected 1.6 Not Not Detected 1.6 Not Not Detected 1.7 Not Not Detected 1.5 Not Detected 1.0 Not Detected 1.0 | Detected |
| Vinyl Chloride 0.50 Not Detected 1.3 Not 1,3-Butadiene 0.50 Not Detected 1.1 Not Bromomethane 0.50 Not Detected 1.9 Not Chloroethane 0.50 Not Detected 1.3 Not Freon 11 0.50 Not Detected 2.8 Not Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 3.8 Not Acetone 2.0 Not Detected 3.8 Not 2-Propanol 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 1.6 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether </td <td>Detected</td> | Detected |
| 1,3-Butadiene | Detected |
| Bromomethane 0.50 Not Detected 1.9 Not Chloroethane Chloroethane 0.50 Not Detected 1.3 Not Detected Freon 11 0.50 Not Detected 2.8 Not Ethanol Ethanol 2.0 Not Detected 3.8 Not Tereon 113 Indicate Instruction 0.50 Not Detected 3.8 Not Instruction Indicate Instruction 0.50 Not Detected 2.0 Not Acetone 2-Propanol 2.0 Not Detected 4.8 Not Detected 2-Propanol 2.0 Not Detected 4.9 Not Detected 3-Chloropropene 2.0 Not Detected 1.6 Not Detected 3-Chloropropene 2.0 Not Detected 1.7 Not Detected Methylene Chloride 0.50 Not Detected 1.7 Not Detected Methylene Chloride 0.50 Not Detected 1.8 Not Detected Instruction of the Instr | Detected |
| Chloroethane 0.50 Not Detected 1.3 Not Freon 11 0.50 Not Detected 2.8 Not Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 1.6 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyleter-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 1.8 Not Hexane 0.50 Not Detected 2.0 Not 1,1 | Detected |
| Freon 11 0.50 Not Detected 2.8 Not Ethanol Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not Detected 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Detected 4.8 Not Detected 4.8 Not Detected 4.8 Not Detected 2-Propanol 2.0 Not Detected 4.9 Not Detected 4.9 Not Detected Detected 4.9 Not Detected | Detected |
| Ethanol 2.0 Not Detected 3.8 Not Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 1.6 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not | Detected |
| Freon 113 0.50 Not Detected 3.8 Not 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 6.3 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.4 <td< td=""><td>Detected</td></td<> | Detected |
| 1,1-Dichloroethene 0.50 Not Detected 2.0 Not Acetone 2-Propanol 2.0 Not Detected 4.8 Not 2-Propanol Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 1.6 Not Mot Not Not Detected 6.3 Not Not Not Not Detected 6.3 Not Not Not Detected 1.7 Not Not Not Detected 1.7 Not Not Not Detected 1.7 Not Not Detected 1.8 Not Detected 1.8 Not Detected 1.8 Not Not Detected 1.8 Not Not Detected 1.0 Not Not Detected 1.0 Not Detected 1.0 Not Not Detected 1.7 Not Not Detected 1.7 Not Not Detected 1.0 Not Not Detected | Detected |
| Acetone 2.0 Not Detected 4.8 Not 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 6.3 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.0 Not Chloroform 0.50 Not Detected 2.4 Not Cyclohexane 0.50 Not Detected 3.1 | Detected |
| 2-Propanol 2.0 Not Detected 4.9 Not Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 6.3 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 1.8 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.4 Not Chloroform 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Cyclohexane 0.50 Not Detected 3.1 | Detected |
| Carbon Disulfide 0.50 Not Detected 1.6 Not 3-Chloropropene 2.0 Not Detected 6.3 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.0 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 3.1 Not Carbon Tetrachloride 0.50 Not Detected | Detected |
| 3-Chloropropene 2.0 Not Detected 6.3 Not Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 2.0 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 3.1 Not Carbon Tetrachloride 0.50 Not Detected 2.3 Not 2,2,4-Trimethylpentane 0.50 Not Detected | Detected |
| Methylene Chloride 0.50 Not Detected 1.7 Not Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 2.0 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.0 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Carbon Tetrachloride 0.50 Not Detected 2.3 Not 2,2,4-Trimethylpentane 0.50 Not Detected 1.6 Not | Detected |
| Methyl tert-butyl ether 0.50 Not Detected 1.8 Not trans-1,2-Dichloroethene Hexane 0.50 Not Detected 2.0 Not Detected 1,1-Dichloroethane 0.50 Not Detected 2.0 Not Detected 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not Cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 2.0 Not Not Detected 2.0 Not Not Detected 1.5 Not Not Not Detected 2.0 Not Not Detected 2.2 Not Not Not Detected 2.3 Not Not Detected | Detected |
| trans-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Hexane 0.50 Not Detected 1.8 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Carbon Tetrachloride 0.50 Not Detected 3.1 Not 2,2,4-Trimethylpentane 0.50 Not Detected 2.3 Not Benzene 0.50 Not Detected 1.6 Not | Detected |
| Hexane 0.50 Not Detected 1.8 Not 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Carbon Tetrachloride 0.50 Not Detected 3.1 Not 2,2,4-Trimethylpentane 0.50 Not Detected 2.3 Not Benzene 0.50 Not Detected 1.6 Not | Detected |
| 1,1-Dichloroethane 0.50 Not Detected 2.0 Not 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Carbon Tetrachloride 0.50 Not Detected 3.1 Not 2,2,4-Trimethylpentane 0.50 Not Detected 2.3 Not Benzene 0.50 Not Detected 1.6 Not | Detected |
| 2-Butanone (Methyl Ethyl Ketone) 0.50 Not Detected 1.5 Not cis-1,2-Dichloroethene 1-2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 1-2-Dichloroethane 0.50 Not Detected 1.5 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 2.7 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.7 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.7 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.7 Not Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.7 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.7 Not Not Detected 1-1-Drichloroethane 0.50 Not Detected 1.6 Not Not Detected | Detected |
| cis-1,2-Dichloroethene 0.50 Not Detected 2.0 Not Tetrahydrofuran 0.50 Not Detected 1.5 Not Chloroform 0.50 Not Detected 2.4 Not 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Cyclohexane 0.50 Not Detected 1.7 Not Carbon Tetrachloride 0.50 Not Detected 3.1 Not 2,2,4-Trimethylpentane 0.50 Not Detected 2.3 Not Benzene 0.50 Not Detected 1.6 Not | Detected |
| Tetrahydrofuran 0.50 Not Detected 1.5 Not Othor Chloroform 0.50 Not Detected 2.4 Not Othor 1,1,1-Trichloroethane 0.50 Not Detected 2.7 Not Othor Cyclohexane 0.50 Not Detected 1.7 Not Othor Carbon Tetrachloride 0.50 Not Detected 3.1 Not Othor 2,2,4-Trimethylpentane 0.50 Not Detected 2.3 Not Othor Benzene 0.50 Not Detected 1.6 Not | Detected |
| Chloroform0.50Not Detected2.4Not1,1,1-Trichloroethane0.50Not Detected2.7NotCyclohexane0.50Not Detected1.7NotCarbon Tetrachloride0.50Not Detected3.1Not2,2,4-Trimethylpentane0.50Not Detected2.3NotBenzene0.50Not Detected1.6Not | Detected |
| 1,1,1-Trichloroethane0.50Not Detected2.7NotCyclohexane0.50Not Detected1.7NotCarbon Tetrachloride0.50Not Detected3.1Not2,2,4-Trimethylpentane0.50Not Detected2.3NotBenzene0.50Not Detected1.6Not | Detected |
| Cyclohexane0.50Not Detected1.7NotCarbon Tetrachloride0.50Not Detected3.1Not2,2,4-Trimethylpentane0.50Not Detected2.3NotBenzene0.50Not Detected1.6Not | Detected |
| Carbon Tetrachloride0.50Not Detected3.1Not2,2,4-Trimethylpentane0.50Not Detected2.3NotBenzene0.50Not Detected1.6Not | Detected |
| Carbon Tetrachloride0.50Not Detected3.1Not2,2,4-Trimethylpentane0.50Not Detected2.3NotBenzene0.50Not Detected1.6Not | Detected |
| Benzene 0.50 Not Detected 1.6 Not | Detected |
| Benzene 0.50 Not Detected 1.6 Not | Detected |
| | Detected |
| 1,2-Dichloroethane 0.50 Not Detected 2.0 Not | Detected |
| | Detected |
| • | Detected |
| | Detected |



Client Sample ID: Lab Blank

Lab ID#: 0707462R1-05A

| File Name: Dil. Factor: | 7080506 1.00 | and and | Date of Collection: Na Date of Analysis: 8/5 | |
|-------------------------------------|------------------|-------------------|---|------------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (uG/m3) | (uG/m3) |
| 1,1,2-Trichloroethane | 0.50 | Not Detected | 2.7 | Not Detected |
| Tetrachloroethene | 0.50 | Not Detected | 3.4 | Not Detected |
| 2-Hexanone | 2.0 | Not Detected | 8.2 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.2 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.50 | Not Detected | 3.8 - | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.1 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.50 | Not Detected | 3.4 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.0 | Not Detected | 15 | Not Detected |
| Hexachlorobutadiene | 2.0 | Not Detected | 21 | Not Detected |
| | TENTATIVELY IDEN | ITIFIED COMPOUNDS | | |
| | | | | Amount |
| Compound | | CAS Number | Match Quality | ppbv |
| Butane | | 106-97-8 | NA | Not Detected |
| Isobutane | | 75-28-5 | NA | Not Detected |
| Propane | | 74-98-6 | NA | Not Detected |
| Container Type: NA - Not Applicable | • | | | Ba de el |
| Surrogates | | %Recovery | · · · · · · · · · · · · · · · · · · · | Method Limits |
| Toluene-d8 | | 87 | | 70-130 |
| 1,2-Dichloroethane-d4 | | 106 | | 70-130 |
| | | | | 70-130 |



Client Sample ID: CCV Lab ID#: 0707462R1-06A

| File Name: 7080503 Date of Collection: NA |
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| Dil. Factor: 1.00 Date of Analysis: 8/5/07 09:24 AM |
| Dil. Factor: 1.00 Date of Analysis: 8/5/07 09:24 AM |
| Dil. Factor: Date of Analysis: 8/5/07 09:24 AM |
| |

| Compound | %Recovery |
|----------------------------------|-----------|
| Freon 12 | 94 |
| Freon 114 | 98 |
| Chloromethane | 86 |
| Vinyl Chloride | 93 |
| 1,3-Butadiene | . 92 |
| Bromomethane | 87 |
| Chloroethane | 88 |
| Freon 11 | 88 |
| Ethanol | 88 |
| Freon 113 | 92 |
| 1,1-Dichloroethene | 93 |
| Acetone | 96 |
| 2-Propanol | 100 |
| Carbon Disulfide | 99 |
| 3-Chloropropene | 93 |
| Methylene Chloride | 94 |
| Methyl tert-butyl ether | 90 |
| trans-1,2-Dichloroethene | 95 |
| Hexane | 98 |
| 1,1-Dichloroethane | 111 |
| 2-Butanone (Methyl Ethyl Ketone) | 116 |
| cis-1,2-Dichloroethene | 113 |
| Tetrahydrofuran | 124 |
| Chloroform | 112 |
| 1,1,1-Trichloroethane | 112 |
| Cyclohexane | 112 |
| Carbon Tetrachloride | 111 |
| 2,2,4-Trimethylpentane | 118 |
| Benzene | 113 |
| 1,2-Dichloroethane | 120 |
| Heptane | 118 |
| Trichloroethene | 107 |
| 1,2-Dichloropropane | 108 |
| 1,4-Dioxane | 104 |
| Bromodichloromethane | 102 |
| cis-1,3-Dichloropropene | . 101 |
| 4-Methyl-2-pentanone | 104 |
| Toluene | 95 |
| trans-1,3-Dichloropropene | 116 |



Client Sample ID: CCV

Lab ID#: 0707462R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: 70 | 080503 Date of Collection: NA |
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| Dil. Factor: | |
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| | 1.00 Date of Analysis: 8/5/07 09:24 AM |
| | 1.00 Date of Analysis: 8/5/07 09:24 AM |
| | |

| Compound | %Recovery |
|---------------------------|-----------|
| 1,1,2-Trichloroethane | 117 |
| Tetrachloroethene | 116 |
| 2-Hexanone | 122 |
| Dibromochloromethane | 116 |
| 1,2-Dibromoethane (EDB) | · 110 |
| Chlorobenzene | 104 |
| Ethyl Benzene | 109 |
| m,p-Xylene | 112 |
| o-Xylene | 112 |
| Styrene | 122 |
| Bromoform | 118 |
| Cumene | 113 |
| 1,1,2,2-Tetrachloroethane | 109 |
| Propylbenzene | 108 |
| 4-Ethyltoluene | 104 |
| 1,3,5-Trimethylbenzene | 107 |
| 1,2,4-Trimethylbenzene | 109 |
| 1,3-Dichlorobenzene | 102 |
| 1,4-Dichlorobenzene | 105 |
| alpha-Chlorotoluene | 105 |
| 1,2-Dichlorobenzene | 103 |
| 1,2,4-Trichlorobenzene | 71 |
| Hexachlorobutadiene | 74 |

Container Type: NA - Not Applicable

| | | Method | |
|-----------------------|-----------|--------|--|
| Surrogates | %Recovery | Limits | |
| Toluene-d8 | 93 | 70-130 | |
| 1,2-Dichloroethane-d4 | 107 | 70-130 | |
| 4-Bromofluorobenzene | 105 | 70-130 | |



Client Sample ID: LCS

Lab ID#: 0707462R1-07A

| File Name: 7080504 Date of Collection | |
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| Dil. Factor: 1.00 Date of Analysis: | |
| Dil. Factor: 1.00 Date of Analysis: | |
| Dil. Factor: Date of Analysis: | |

| Compound | %Recovery |
|----------------------------------|-----------|
| Freon 12 | 101 |
| Freon 114 | 108 |
| Chloromethane | 94 |
| Vinyl Chloride | 101 |
| 1,3-Butadiene | 96 - |
| Bromomethane | 94 |
| Chloroethane | 95 |
| Freon 11 | 103 |
| Ethanol | 109 |
| Freon 113 | 112 |
| 1,1-Dichloroethene | 119 |
| Acetone | 112 |
| 2-Propanol | 119 |
| Carbon Disulfide | 110 |
| 3-Chloropropene | 107 |
| Methylene Chloride | 116 |
| Methyl tert-butyl ether | 90 |
| trans-1,2-Dichloroethene | 102 |
| Hexane | 106 |
| 1,1-Dichloroethane | 108 |
| 2-Butanone (Methyl Ethyl Ketone) | 120 |
| cis-1,2-Dichloroethene | 120 |
| Tetrahydrofuran | 121 |
| Chloroform | 113 |
| 1,1,1-Trichloroethane | 111 |
| Cyclohexane | 113 |
| Carbon Tetrachloride | 112 |
| 2,2,4-Trimethylpentane | 114 |
| Benzene | 111 |
| 1,2-Dichloroethane | 115 |
| Heptane | 113 |
| Trichloroethene | 110 |
| 1,2-Dichloropropane | 120 |
| 1,4-Dioxane | 109 |
| Bromodichloromethane | 105 |
| cis-1,3-Dichloropropene | 109 |
| 4-Methyl-2-pentanone | 114 |
| Toluene | 101 |
| trans-1,3-Dichloropropene | 112 |



Client Sample ID: LCS

Lab ID#: 0707462R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: 7080504 Date of Collection: NA |
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| Dil. Factor: Date of Analysis: 8/5/07 10:11 AM |
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| Dil. Factor: Date of Analysis: 8/5/07 10:11 AM |
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| Compound | %Recovery |
|---------------------------|-----------|
| 1,1,2-Trichloroethane | 109 |
| Tetrachloroethene | 111 |
| 2-Hexanone | 109 |
| Dibromochloromethane | 117 |
| 1,2-Dibromoethane (EDB) | 105 |
| Chlorobenzene | 106 |
| Ethyl Benzene | 106 |
| m,p-Xylene | 108 |
| o-Xylene | 111 |
| Styrene | 120 |
| Bromoform | 112 |
| Cumene | 109 |
| 1,1,2,2-Tetrachloroethane | 95 |
| Propylbenzene | 101 |
| 4-Ethyltoluene | 104 |
| 1,3,5-Trimethylbenzene | 100 |
| 1,2,4-Trimethylbenzene | 104 |
| 1,3-Dichlorobenzene | 101 |
| 1,4-Dichlorobenzene | 102 |
| alpha-Chlorotoluene | 106 |
| 1,2-Dichlorobenzene | 97 |
| 1,2,4-Trichlorobenzene | 78 |
| Hexachlorobutadiene | 80 |

Container Type: NA - Not Applicable

| | | Method |
|-----------------------|-----------|--------|
| Surrogates | %Recovery | Limits |
| Toluene-d8 | 91 | 70-130 |
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



APPENDIX G

Soil Analytical Laboratory Report

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| Cambria Env. Technology | Client Project ID: #589-1000 | Date Sampled: 11/17/06 |
|-------------------------|------------------------------|--------------------------|
| 5900 Hollis St, Suite A | | Date Received: 11/20/06 |
| Emeryville, CA 94608 | Client Contact: Mark Jonas | Date Reported: 11/28/06 |
| | Client P.O.: | Date Completed: 11/28/06 |

WorkOrder: 0611419

November 28, 2006

Dear Mark:

Enclosed are:

- 1). the results of 3 analyzed samples from your #589-1000 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

MeCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (877) 252-9262

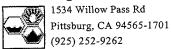
Fax: (925) 252-9269

| CHAIN OF | CUSTODY | RECORD |
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| Report To: 1/1/1/ | v Jonas | > | Ţ | ill To |): [\ | MU | L | JON | Vs. | 5_ | | | | | | | A | nal | ysis | Rec | ues | ŧ . | | | | | | (| ther | Comments |
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| Tele: (510)42 | 20-070 | 2 | F | ax: (| 50 |) 40 | 20 | -41 | 76 | <u> </u> | - Color Strategy | - S | | 35. | G | R | 31) | | ers/ | | @ · | - Apolytical (g) | *************************************** | () | (99) | 602 | 1 | je in a | 3 | analysis: |
| Project #: 58 | 1-1000 | <u></u> | P | rojec | t Nan | ae: | | | v | | | 4 | 1 | 3 | (418) | Š | 08/ | (80 | rocl | | telde | | · · | N.A. | 910 | 0110 | | S | 3 | Yes/No |
| Project Location: | <i>900</i> F | YOUR | lins | | Dak | <u> 40 </u> | 1 | <u> </u> | | | | _ £ | | 3 3 | Suo | 19 | 1 602 | tield | Υ | des) | Ferb | 3 | 3 | 1/3 | 2/8 | 8.76 | 8020 | 3 | 8260 | |
| Sampler Signatur | e: Cel | عبد | | | | | | | | | | 15 - 1 - 51 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | 3 | 3 | Total Petroleum Hydrocarbons (418.1) | EPA 502.1 / 601 / 8010 / 8021 (HVOCS) | MTBE / BTEX ONLY (EPA 602 / 8021) | EPA 505/ 608 / 8081 (Cl Pesticidos) | ON. | EPA 507 / 8141 (N.P. Pesticides) | EPA 515 / 8151 (Acidic Cl Herbicides) | EPA 524.2 / 624 / 8260 (VOCs) | EPA 525.2 / 625 / 8270 (SVOCs) | EPA 8270 SIM (8310 (PAIG) PNAS) | CAM 17 Metals (200.7 / 200.8 / 6010 / 6020) | LUFF \$ Metals (200.7 / 200.8 / 6010 / 6020) | Lead (200,7 / 200.8 (6010) 5020) | 0240 | | |
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| | | | .: | ŭ | اجًا | a . | Voll Air | Shudge | 2 | HCL | HNO | | E | otal | otal | PA | 473 | 'F' | P.A | Y. | ¥43 | PA. | ¥dS | ¥.ds | 74.8 | 35 | paa | N | đ | |
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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

5 days

WorkOrder: 0611419

ClientID: CETE

☑ EDF

Fax

✓ Email

HardCopy

☐ ThirdParty

Requested TAT:

Report to:

Mark Jonas

Cambria Env. Technology

5900 Hollis St, Suite A

Emeryville, CA 94608

mjonas@cambria-env.com Email:

(510) 420-070

FAX: (510) 420-917

ProjectNo: #589-1000

PO:

TEL:

Bill to

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Date Received: 11/20/2006

Date Printed: 11/20/2006

| | | | | Γ | | | | Req | uested | Tests (| See leg | gend be | elow) | | | |
|-------------|--------------|--------|-----------------|------|---|-----|-------------|-----|----------|---------|---------|---------|-------|--------------|-----|----|
| Sample ID | ClientSampID | Matrix | Collection Date | Hold | 1 | 2 | 3_ | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11_ | 12 |
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| 0611419-001 | VP-1.5.5 | Soil | 11/17/2006 | | A | A | A | A | <u> </u> | ļ | | | | | | |
| | VD 0 5 5 | Soil | 11/17/2006 | | Α | A | | | A | | l | | | | | |
| 0611419-002 | VP-2.5.5 | | | -=- | _ | | | | | | 1 | | I | 1 | | |

Test Legend:

| 1 | 8260B_S |
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| 6 | |
| 11 | |

| 2 | G-MBTEX_S |
|----|-----------|
| 7 | |
| 12 | |

| 3 | PB_S |
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| 8 | |

| 4 | PREDF REPORT |
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| 5 | TPH(D)WSG_S |
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| 10 | |
| | |

Prepared by: Nickole White

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| Cambria Env. Technology | Client Project ID: #589-1000 | Date Sampled: | 11/17/06 |
|-------------------------|------------------------------|-----------------|-------------------|
| 5900 Hollis St, Suite A | | Date Received: | 11/20/06 |
| Emeryville, CA 94608 | Client Contact: Mark Jonas | Date Extracted: | 11/20/06 |
| | Client P.O.: | Date Analyzed: | 11/22/06-11/23/06 |

Diesel Range (C10-C23) & Oil Range (C18+) Extractable Hydrocarbons as Diesel & Motor Oil w/ Silica Gel Clean-Up*

| Extraction method: SW355 | 0C/3630C | Analytical me | thods: SW8015C | Work Order: 0611419 | | | |
|--------------------------|--------------------|---------------|---|---------------------|----|--------------|--|
| Lab ID | Client ID | Matrix | TPH(d) | TPH(mo) | DF | % SS | |
| 0611419-001A | VP-1.5.5 | S | 4.0,g,b | 6.9 | 1 | 90 | |
| 0611419-002A | VP-2.5.5 | S | ND | ND | 1 | 94 | |
| 0611419-003A | W-1 | S | 1.8,g | 22 | 1 | 89 | |
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| D | g Limit for DE =1: | | | | 1 | | |

| Reporting Limit for DF =1; | W | NA | NA | ug/L |
|---|---|-----|-----|-------|
| ND means not detected at or above the reporting limit | S | 1.0 | 5.0 | mg/Kg |

^{*} water samples are reported in μ g/L, wipe samples in μ g/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in μ g/L.

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis

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1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com

| | "When Ouality Cou | nts" | Telep | hone: 877-252-9262 Fax: 92 | 25-252-9269 | |
|------------------------|-------------------|---------------------|----------------------|----------------------------|----------------|---------------------------------------|
| Cambria Env. Teo | chnology | Client Project II | D: #589-1000 | Date Sampled: | 11/17/06 | |
| 5900 Hollis St, Su | ite A | | | Date Received: | 11/20/06 | |
| Emeryville, CA 94608 | | Client Contact: | Mark Jonas | Date Extracted: | 11/20/06 | · · · · · · · · · · · · · · · · · · · |
| Entiry vine, ex 24000 | | Client P.O.: | | Date Analyzed | 11/22/06-11/2 | 23/06 |
| | Diesel Range (C | 10-C23) Extractable | Hydrocarbons with | Silica Gel Clean-Up* | | |
| Extraction method: SW3 | 550C/3630C | Analytic | cal methods: SW8015C | | Work Order: 06 | 11419 |
| Lab ID | Client ID | Matrix | Т | PH(d) | DF | % SS |
| 0611410 0011 | 7.Th (| | | | | |

| | Analytical methods. 5 w 8017C Work Ord | | | | 1419 |
|--------------|--|--------|---------|----|----------|
| Lab ID | Client ID | Matrix | TPH(d) | DF | % SS |
| 0611419-001A | VP-1.5.5 | S | 4.0,g,b | 1 | 90 |
| 0611419-002A | VP-2.5.5 | S | ND | 1 | 94 |
| 0611419-003A | W-1 | S | 1.8,g | I | 89 |
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| Reporting Limit for DF =1; ND means not detected at or | w | NA | NA |
|---|---|-----|-------|
| above the reporting limit | S | 1.0 | mg/Kg |

^{*} water samples are reported in μg/L, wipe samples in μg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis

| McCampbell Analytical, Inc. |
|-----------------------------|
| "When Ouality Counts" |

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| Cambria Env. Technology | Client Project ID: #589-1000 | Date Sampled: 11/17/06 |
|-------------------------|------------------------------|----------------------------------|
| 5900 Hollis St, Suite A | | Date Received: 11/20/06 |
| Emeryville, CA 94608 | Client Contact: Mark Jonas | Date Extracted: 11/20/06 |
| ,, <u></u> | Client P.O.: | Date Analyzed: 11/20/06-11/21/06 |

| | Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE* | | | | | | | | | |
|--------------|---|--------|--------------|------|---------|---------|--------------|---------|--------------|------|
| Extraction n | Extraction method: SW5030B Analytical methods: SW8021B/8015Cm | | | | | | Work Orde | r: 0611 | 1419 | |
| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
| 001A | VP-1,5.5 | S | ND | ND | ND | ND | ND | ND | 1 | 91 |
| 002A | VP-2.5.5 | S | ND | ND | ND | ND | ND | ND | 1 | 91 |
| 003A | W-1 | S | ND | ND | ND | ND | ND | ND | 1 | 90 |
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| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | w | NA | NA | NA | NA | NA | NA | 1 | ug/L |
|---|---|-----|------|-------|-------|-------|-------|---|-------|
| | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 1 | mg/Kg |

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com

| | "When Quality Counts" | Telephone: 877-252-9262 Fax: 925-252-9269 | | | | | | | | |
|----------------------|---|---|------------|-------------------|--------------|-------------------------|-----------|-------|--|--|
| Cambria Env. | Гесhnology | Client Proj | ject ID: | #589-1000 | | Date Sampled: 11/1 | 7/06 | | | |
| 5900 Hollis St, | Suite A | | | | | Date Received: 11/2 | 0/06 | | | |
| Emeryville, CA | . 94608 | Client Cor | ntact: N | Mark Jonas | | Date Extracted: 11/2 | 20/06 | | | |
| , , | | Client P.O | .: | | | Date Analyzed: 11/2 | 22/06 | | | |
| | | | | by P&T and GC/MS* | • | | | | | |
| Extraction method: S | | Anal | ytical met | hods: SW8260B | | | Order: 06 | 11419 | | |
| Lab ID | Client ID | Matr | ix | Chloroform | ,2-D | richloroethane (1,2-DCA | DF | % SS | | |
| 0611419-001A | VP-1.5.5 | S | | ND | | ND | 1 | 97 | | |
| 0611419-002A | VP-2.5.5 | s | | ND | ļ | ND | 1 | 98 | | |
| 0611419-003A | W-1 | S | | ND | | ND | 1 | 100 | | |
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| <u> </u> | <u> </u> | | | | _ | | <u> </u> | | | |
| 1 | porting Limit for DF =1; | W | 7 | NA | | NA | ug | g/L | | |
| | means not detected at or pove the reporting limit | S | | 0.005 | | 0.005 | mg | g/kg | | |

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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| | "When Ouality Counts" | car, III | <u></u> | Web: www.mcc Telephor | ampbell.com E-mail: main ne: 877-252-9262 Fax: 925 | @mccampbell.con 5-252-9269 | 1 | | |
|--|--|------------|------------|--------------------------|---|-------------------------------|--|--|--|
| Cambria Env | r. Technology | Client Pro | ject ID: # | | Date Sampled: | | | | |
| 5900 Hollis S | t, Suite A | | | | Date Received: | 11/20/06 | | | |
| Emeryville, C | 'A 94608 | Client Co | ntact: Ma | rk Jonas | Date Extracted: | 11/20/06 | 06 | | |
| | | Client P.C |).; | | Date Analyzed: | 11/27/06 | | | |
| Enteration and al | CWINCOR | | Lead by | | | | | | |
| Extraction method: | | | T | thods: 6010C | | Work Order: 00 | 511419 | | |
| Lab ID | Client ID | Matrix | Extraction | On _ | Lead | DF | % SS | | |
| 0611419-001A | VP-1.5.5 | S | TTLC | | 35 | 1 | 109 | | |
| 0611419-003A | W-1 | S | TTLC | | 210 | 1 | 109 | | |
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| | | | | | | | 1 | | |
| | orting Limit for DF =1; neans not detected at or | W | TTLC | | NA | ŀ | ıg/L | | |
| | ove the reporting limit | S | TTLC | | 5.0 | m | g/Kg | | |

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method | 6010C | | | Extracti | on SW3050 | В | В | atchID: 2 | 4861 | Spiked Sa | mple | ID 0611340 | -027A |
|------------------|-------|--------|--------|----------|-----------|--------|--------|-----------|----------|-----------|--------|---------------|-------|
| Analyte Sample S | | Spiked | MS | MSD | MS-MSD | Spiked | LCS | LCSD | LCS-LCSD | Acc | eptanc | e Criteria (% | ·) |
| • | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | mg/Kg | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Lead | 10 | 50 | 94.8 | 94.8 | 0 | 10 | 103 | 96.6 | 6.29 | 75 - 125 | 20 | 80 - 120 | 20 |
| %SS: | 105 | 250 | 105 | 105 | 0 | 250 | 108 | 106 | 1.69 | 70 - 130 | 20 | 70 - 130 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24861 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0611419-001A | 11/17/06 11:35 AN | 11/20/06 | 11/27/06 6:46 PM | 0611419-003A | 11/17/06 12:45 PN | 11/20/06 | 11/27/06 6:48 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte.

A/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method SW8260B | E | xtraction | SW5030 |)B | | Batchil | D: 24841 | 5 | Spiked San | nple ID | : 0611396-0 | 59a |
|-------------------------------|--------|-----------|--------|--------|--------|---------|----------|----------|------------|---------|---------------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Ac | ceptan | ce Criteria (| %) |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME | ND | 0.050 | 81 | 92.5 | 13.2 | 95.2 | 93.3 | 2.09 | 70 - 130 | 30 | 70 - 130 | 30 |
| Benzene | ND | 0.050 | 110 | 121 | 9.61 | 122 | 121 | 0.869 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 0.25 | 77.2 | 75.8 | 1.87 | 93.1 | 87.5 | 6.17 | 70 - 130 | 30 | 70 - 130 | 30 |
| Chlorobenzene | ND | 0.050 | 99.2 | 111 | 10.9 | 106 | 103 | 2.02 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | 98 | 109 | 10.2 | 112 | 108 | 4.08 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.050 | 84.7 | 85.5 | 0.922 | 88.7 | 85.6 | 3.57 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 0.050 | 113 | 125 | 10.0 | 124 | 123 | 0.871 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 0.050 | 104 | 118 | 12.4 | 119 | 116 | 2.64 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.050 | 81 | 94.6 | 15.4 | 96.1 | 93.1 | 3.20 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 0.050 | 77.7 | 88.7 | 13.3 | 93.1 | 90.5 | 2.80 | 70 - 130 | 30 | 70 - 130 | 30 |
| Toluene | ND | 0.050 | 106 | 117 | 9.82 | 112 | 110 | 1.90 | 70 - 130 | 30 | 70 - 130 | 30 |
| Trichloroethene | ND | 0.050 | 88.1 | 101 | 13.5 | 96.6 | 95.4 | 1.18 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 105 | 0.050 | 97 | 100 | 2.88 | 100 | 99 | 0.935 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS2: | 100 | 0.050 | 98 | 95 | 3.54 | 96 | 95 | 0.0327 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS3: | 99 | 0.050 | 92 | 92 | 0 | 92 | 93 | 1.56 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24841 SUMMARY

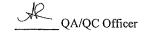
| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|-------------|------------------|----------------|------------------|-------------|------------------|----------------|------------------|
| 0611419-001 | 1/17/06 11:35 AM | 11/20/06 | 11/22/06 9:52 AM | 0611419-002 | 1/17/06 12:40 PM | 11/20/06 | 1/22/06 10:39 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.



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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method 6010C | Ε | Extraction SW3050B | | | | | BatchID: 24861 | | | Spiked Sample ID: 0611340-027A | | | |
|------------------|---------------|--------------------|-----------|--------|--------|--------|----------------|----------|-------------------------|--------------------------------|----------|-----|--|
| Analyte | Sample Spiked | | Spiked MS | | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | | |
| · | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD | |
| Lead | 10 | 10 | 94.8 | 94.8 | 0 | 103 | 96.6 | 6.29 | 75 - 125 | 20 | 80 - 120 | 20 | |
| %SS: | 105 | 250 | 105 | 105 | 0 | 108 | 106 | 1.69 | 70 - 130 | 20 | 70 - 130 | 20 | |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24861 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|-------------|------------------|----------------|------------------|-------------|------------------|----------------|------------------|
| 0611419-001 | 1/17/06 11:35 AM | 11/20/06 | 11/27/06 6:46 PM | 0611419-003 | I/17/06 12:45 PM | 11/20/06 | 11/27/06 6:48 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method SW8260B | | xtraction | SW5030 | 0B | | Batchli | D: 24864 | | Spiked San | nple ID | : 0611419-0 | 003a |
|-------------------------------|--------|-----------|--------|--------|--------|---------|----------|----------|------------|---------|---------------|------|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | | | ce Criteria (| |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME | ND | 0.050 | 83.3 | 87.8 | 5.25 | 84.7 | 91.8 | 7.98 | 70 - 130 | 30 | 70 - 130 | 30 |
| Benzene | ND | 0.050 | 110 | 115 | 4.33 | 100 | 116 | 14.9 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 0.25 | 86.5 | 85.4 | 1.26 | 85.5 | 87.4 | 2.27 | 70 - 130 | 30 | 70 - 130 | 30 |
| Chlorobenzene | ND | 0.050 | 101 | 103 | 1.66 | 85.8 | 103 | 18.5 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | 106 | 107 | 1.29 | 98.8 | 108 | 8.93 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.050 | 87 | 80.3 | 8.01 | 87.5 | 84.8 | 3.12 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 0.050 | 109 | 116 | 6.72 | 97.5 | 119 | 19.8 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 0.050 | 105 | 111 | 5.71 | 100 | 115 | 14.0 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.050 | 83.6 | 88.3 | 5.48 | 89.6 | 92.6 | 3.24 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 0.050 | 81.2 | 85.7 | 5.45 | 81.3 | 89.6 | 9.65 | 70 - 130 | 30 | 70 - 130 | 30 |
| Toluene | ND | 0.050 | 105 | 108 | 2.78 | 87.7 | 107 | 19.6 | 70 - 130 | 30 | 70 - 130 | 30 |
| Trichloroethene | ND | 0.050 | 88 | 90.5 | 2.83 | 79.7 | 96.6 | 19.2 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 96 | 0.050 | 95 | 97 | 2.23 | 104 | 101 | 2.73 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS2: | 103 | 0.050 | 95 | 95 | 0 | 94 | 94 | 0 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS3: | 100 | 0.050 | 92 | 91 | 0.473 | 91 | 92 | 0.491 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24864 SUMMARY

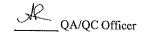
| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|-------------|------------------|----------------|------------------|-----------|--|---------------------------------------|---------------|
| 0611419-003 | 1/17/06 12:45 PM | 11/20/06 | 1/22/06 11:26 AM | | ······································ | · · · · · · · · · · · · · · · · · · · | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.



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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method SW8021B | /8015Cm E | 0B | BatchID: 24838 Spiked Sample ID: 0611396 | | | | | | : 0611396-0 |)59A | | |
|-----------------------|-----------|--------|--|------|--------|---------------|--------|-------------------|-------------------------|------|----------|-----|
| Analyte | Sample | Spiked | MS | | MS-MSD | LCS % Rec. | LCSD | LCS-LCSD % RPD | Acceptance Criteria (%) | | | |
| | mg/Kg | mg/Kg | % Rec. | | % RPD | | % Rec. | | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(btex ^f | ND | 0.60 | 112 | 114 | 1.67 | 112 | 107 | 4.86 | 70 - 130 | 30 | 70 - 130 | 30 |
| МТВЕ | ND | 0.10 | 93.2 | 99.9 | 6.95 | 93.3 | 95.4 | 2.25 | 70 - 130 | 30 | 70 - 130 | 30 |
| Benzene | ND | 0.10 | 107 | 105 | 1.49 | 97.1 | 99.1 | 2.02 | 70 - 130 | 30 | 70 - 130 | 30 |
| Toluene | ND | 0.10 | 97.5 | 95.8 | 1.78 | 88 | 90.6 | 2.87 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethylbenzene | ND | 0.10 | 110 | 105 | 4.73 | 96.8 | 96.5 | 0.307 | 70 - 130 | 30 | 70 - 130 | 30 |
| Xylenes | ND | 0.30 | 107 | 107 | 0 | 96.3 | 96 | 0.347 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS: | 96 | 0.10 | 94 | 101 | 7.18 | 95 | 84 | 12.3 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24838 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|-------------|------------------|----------------|------------------|-------------|------------------|----------------|------------------|
| 0611419-001 | 1/17/06 11:35 AM | 11/20/06 | 1/20/06 10:50 PM | 0611419-002 | 1/17/06 12:40 PM | 11/20/06 | 11/21/06 5:56 AM |
| 0611419-003 | 1/17/06 12:45 PM | 11/20/06 | 11/21/06 6:28 AM | <u> </u> | | 11.20.00 | 11/21/00 3.30 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0611419

| EPA Method SW8015C | Extraction SW3550C/3630C | | | | | BatchID: 24863 | | | Spiked Sample ID: 0611419-003A | | | |
|--------------------|--------------------------|--------|--------|--------|--------|----------------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | %) |
| | mg/Kg | mg/Kg | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(d) | 1.8 | 20 | 112 | 113 | 0.287 | 99.6 | 100 | 0.557 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS: | 89 | 50 | 103 | 102 | 0.536 | 102 | 105 | 2.74 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 24863 SUMMARY

| Sample ID | Date Sampled | Date Extracted | Date Analyzed | Sample ID | Date Sampled | Date Extracted | Date Analyzed |
|-------------|------------------|----------------|------------------|-------------|------------------|----------------|------------------|
| 0611419-001 | 1/17/06 11:35 AM | 11/20/06 | 11/23/06 1:35 AM | 0611419-002 | 1/17/06 12:40 PM | 11/20/06 | 11/23/06 1:35 AM |
| 0611419-003 | 1/17/06 12:45 PM | 11/20/06 | 1/22/06 12:21 AM | | | | ' |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

