

PHASE II SUBSURFACE INVESTIGATION

**2700 23rd Avenue
Oakland, Alameda County, California**



Prepared for:

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Prepared by:

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**SCS370
August 24, 2010**



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Project No. SCS370

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Reference: 2700 23rd Avenue
Oakland, Alameda County, California

Subject: Report:
Phase II Subsurface Investigation

Dear Mr. McBeth and Mr. Bryant,

SCHUTZE & Associates, Inc. has completed a Subsurface Investigation for the property located at 2700 23rd Avenue, Oakland, California (subject site). The purpose of the work was to investigate whether soil and/or groundwater at the site have been environmentally impacted as a result of a former, on-site gasoline service station.

The work was supervised by a California Professional Geologist (P.G.) and was conducted in accordance with the scope and limitations of ASTM¹ Practice E 1903-97 (re-approved 2002).

The subject site consisted of the following parcel:

Property Address	APN ² Number	Approximate Parcel Size	Location
2700 23 rd Avenue, Oakland, Alameda County, California	26-793-31	6,400 sq ft	NE corner of 23 rd Avenue and East 27 th Street

The subject property is shown on the Site Map (Figure 1) attached to this report.

¹ American Society for Testing and Materials

² Assessor's Parcel Number

A. BACKGROUND

SCHUTZE & Associates, Inc. reviewed a Local Regulatory Agency File Review of the subject site prepared by Basics Environmental, Inc. (Basics).³ According to Basics' findings, the subject site was developed with a gasoline service station from approximately 1928 to 1964. A dispenser island was at the southwestern corner of the property and a "kiosk" was at the northeastern corner. By 1936, an auto repair shop had been added to the eastern portion of the site. The presence of the former gasoline service station would represent a "Recognized Environmental Condition" (REC) for the subject site property.

According to information received by Basics from the Oakland Building Department (OBD), a permit was issued in 1964 to demolish a "service station and lube room" at the subject site address. In 1968, plans were submitted for the construction of the current building, a liquor store. A note on the 1968 plans referred to the intended removal of the gasoline storage tanks which existed at the site (the number, capacity and location of the tanks was not given). The OBD records viewed by Basics did not include confirmation that the tank removal was completed.

B. PHYSICAL SETTINGS

B.1 Topography

The subject site is situated at the base of the Oakland Hills. The approximate elevation at the subject site is 165 feet above mean sea level (MSL). The topography at the subject site is relatively flat with a gentle slope to the south. The topography within the vicinity of the subject site slopes to the southwest towards Brooklyn Basin, which flows into San Francisco Bay.⁴

B.2 Geology of the Shallow Subsurface

Subsurface deposits encountered at the subject site during this investigation consisted of approximately three feet of sandy/silty fill material, underlain by a minimum of 22 feet of tight, dry (or slightly-moist) silty-clays.

B.3 Groundwater

SCHUTZE & Associates, Inc. reviewed the GeoTracker⁵ database for environmental data within an approximate 3,000-foot radius of the subject site. Relevant groundwater data are tabulated in Table 1.

³ Basics Environmental, Inc., *Local Regulatory Agency File Review, 2700 23rd Avenue, Oakland, CA, May 7, 2010*

⁴ USGS, Oakland East, California 15' Quadrangle Topographic Map, 1997

⁵ California State Water Resources Control Board, <http://geotracker.swrcb.ca.gov/>, accessed June 6, 2010

TABLE 1
GeoTracker Groundwater Data for Nearby Properties
2700 23rd Avenue, Oakland, California

Source	Distance from Subject Site	Depth to Groundwater (ft bgs)	Groundwater Confined to Significantly Greater Depths?	Flow Direction
Conoco Phillips, <i>Semi Annual Summary Report – Third and Fourth Quarter 2009, 3070 Fruitvale Ave., Oakland, CA</i>	2,500 ft Northeast	7-10 ft bgs	Possibly to 54 ft bgs in one monitoring well, not in others	West
Conestoga-Rovers & Associates, <i>Groundwater Monitoring Report, Second Quarter 2009, 1499 Macarthur Blvd., Oakland, CA</i>	2,600 ft North	7-10 ft bgs	No	Southwest
Ceres Associates, <i>Quarterly Groundwater Monitoring Report, Fourth Quarter 2008, 2547 East 27th St., Oakland, CA</i>	1,200 ft Southeast	5-13 ft bgs	No, only shallow perched groundwater encountered	East-Southeast
All distances approximated; ft bgs = feet below ground surface.				

Based on the above-mentioned reports, shallow perched groundwater was encountered at various depths beneath the area surrounding the subject site. During this investigation, shallow groundwater was encountered beneath the subject site in two of the four on-site borings, in a thin, discontinuous, sandy horizon at depths between 15 and 18 ft bgs. Information regarding deeper groundwater aquifers in the area was not readily available.

C. PRE-FIELD ACTIVITIES

Prior to drilling, SCHUTZE & Associates, Inc. submitted a site plan, work plan, drilling contractor's credentials and permit application to the Alameda County Department of Public Works. The drilling permit is attached as Appendix C.

SCHUTZE & Associates, Inc. marked the proposed boring locations with white spray paint. Subsequently, Underground Services Alert (USA) was contacted to clear the proposed boring locations for utilities. The ticket number provided by USA for this procedure was #215219. As an additional safety precaution, a private utilities locator was also hired to clear the boring locations (OHJ Subsurface, Oakland, California).

A health and safety meeting was held before commencing fieldwork.

D. DRILLING AND SAMPLING

D.1 Drilling Methodology

Drilling was conducted on July 29, 2010 using a Geoprobe 6600 Series direct-push rig. Four exploratory soil borings were advanced to a maximum depth of approximately 22 ft bgs. Soil cores were continuously recovered inside four-foot, 1.5-inch-diameter acetate liners as the drill rods were hammered into the subsurface. Shorter liners were used

based on the soil density. Three additional soil vapor borings were advanced to 5 ft bgs using the direct-push method, and one additional soil vapor boring was advanced to 5 ft bgs via a hand auger. Subsequent to sampling, the borings were backfilled with Portland neat cement. Soil boring information is tabulated in Table 2. The boring locations are depicted on the attached Figure 1. The Boring Logs are attached as Appendix B.

TABLE 2
Soil Boring Data
2700 23rd Avenue, Oakland, California

Boring Number	Location / Comments	Total Depth (ft bgs)	Method	Soil Samples Collected and Submitted for Analyses	Soil Vapor Samples Collected	Groundwater Samples Collected
B1	Parking lot, adjacent to south property boundary and southeast building perimeter (potential/former UST location).	20	Geoprobe direct-push	B1-8', B1-14', B1-20	--	B-1-W
B2	Southwest property boundary (potential/former UST location).	20		B2-8', B2-16'	--	--
B3	Central west parking lot (potential/former UST location).	22		B3-7', B3-12'	--	B-3-W
B4	Northwest parking lot (location of former maintenance shop).	20		B4-7', B4-14'	--	--
SV1	Southeast property boundary, adjacent to south building perimeter.	5		--	SV-1	--
SV2	South-central parking lot, (potential/former UST location).	5		SV-2-5'	SV-2	--
SV3	Parking lot, adjacent to northwest building perimeter (location of former maintenance shop).	5		--	SV-3	--
SV4	Northeast property boundary, behind building.	5	Hand auger	--	SV-4	--

ft bgs = feet below ground surface; -- = not collected/not encountered

D.2 Photo Ionization Detector (PID) Readings

A hand-held PID was used during the investigation in order to screen for VOCs⁶ potentially occurring in soil and ambient air at the site. Readings were collected by placing soil samples and the PID sensor in a plastic bag. The readings are tabulated in Table 3. Readings were not collected from the soil vapor borings.

The highest PID reading collected during the investigation was 1,548 parts per million (ppm), recorded from boring B1 at approximately 15 ft bgs. A green-stained silty-sand lense was observed in boring B1 at that depth. The lense emitted a strong hydrocarbon odor and was indicative of contamination by petroleum hydrocarbons.

⁶ Volatile organic compound(s)

TABLE 3
PID Readings (ppm)
2700 23rd Avenue, Oakland, California

Ft bgs	B1	B2	B3	B4
0-5	0.3	0.3	0.3	1.1
5-10	0.5	0.3	0.4	0.9
10-15	1,548	0.3	0.3	0.7
15-20	13.0	0.3	0.3	0.7
20-25	--	--	0.1	--
Ambient	0.2 - 0.7			
PID = photo ionization detector; ppm = parts per million; ft bgs = feet below ground surface; Values indicate the highest PID reading collected per five-foot interval.				

D.3 Soil and Groundwater Sampling Methodology

Soil cores were continuously recovered inside 1.5-inch-diameter acetate liners. Soil samples were collected by cutting a specific depth interval from the acetate liner and then sealing it at both ends with Teflon septa and tight fitting plastic caps. Nitrile gloves were utilized to prevent cross contamination.

Perched groundwater was encountered in borings B1 and B3. No groundwater was observed in the remaining soil borings or soil vapor borings. Due to the apparent low permeability of the adjacent formation, temporary PVC screens were placed in borings B1 and B3 so that groundwater could enter the borings over time. Sufficient groundwater for sampling was observed in borings B1 and B3 after approximately two hours.

Groundwater samples were collected in one-liter amber jars and 40-milliliter Volatile Organics Analyses (VOAs) via tubing and a foot valve. Groundwater sample containers were pre-preserved with hydrogen chloride (HCl). Groundwater collected from boring B1 was filtered in the field using a 0.45 micron in-line filter and was then preserved with nitric acid (HNO₃).

The samples were stored on ice in a cooler and were subsequently transported to McCampbell Analytical, Inc. (CA DHS ELAP⁷ #1644) for analyses. Samples were analyzed based on the work plan and field observations. Samples submitted to the laboratory but not analyzed were placed on hold for potential future analyses, if required.

D.4 Soil Vapor Sampling Methodology

A soil vapor survey was conducted on July 29, 2010. Soil vapor samples were collected in one-liter evacuated, stainless steel, SUMMA canisters provided by McCampbell Analytical, Inc. After confirming the initial pressure, the canister was left open until the pressure had increased to approximately -5 in Hg⁸ (approximately four to six minutes).

⁷ California Department of Health Services Environmental Laboratory Accreditation Program

⁸ Inches of Mercury

The samples were collected from a minimum of five ft bgs, the minimum depth recommended by the Department of Toxic Substances Control (DTSC) in order to collect a soil vapor sample that is not impacted or diluted by up-hole ambient air. A flow rate of 200 ml/min⁹ is recommended by the DTSC and was requested by SCHUTZE & Associates, Inc. for the regulators. Based on this requested flow rate, a minimum of three tubing/sample train volumes were purged prior to collecting the samples. The following methodology was used:

- Advance the soil vapor boring to the desired sampling depth via a Geoprobe direct-push rig or hand auger.
- Purge a minimum of three sample train volumes based on a flow rate of approximately 200 ml/min. Purging is conducted via an in-line evacuated six-liter SUMMA canister.
- Collect the soil vapor sample from the soil boring in a one-liter SUMMA canister provided by McCampbell Analytical, Inc. SUMMA canisters are supplied with a negative pressure, meaning the pressure inside the canister is less than the atmospheric pressure outside the canister. When the regulators are opened, soil vapor is drawn into the canister as long as the pressure inside the canister is negative. In order to collect the sample, a porous tip is attached to a rigid tube, which is then inserted into the boring at the desired sampling depth. One foot of coarse Monterey #2/12 sand is then poured into the boring to surround the tip with a porous media. The sand is covered with approximately one foot of dry bentonite clay. Subsequently, bentonite clay is placed in layers into the boring and water is poured onto each bentonite layer to seal the drill hole and prevent vapor intrusion from above. The tube is connected to a stainless steel sample train, with a purge canister at the distant connection and the sample canister on the closer connection. Five-micron in-line filters are used to prevent particulate matter from entering the canisters and to increase canister fill times. Vacuum gauges are used to measure the initial vacuum of the canister before sampling and the final vacuum upon completion. A second in-line vacuum gauge is used to measure the pressure differential. Isopropyl is used as a tracer.
- Collect one outdoor ambient air sample. This sample is collected so that concentrations of compounds potentially existing in soil can be compared to concentrations of compounds potentially existing in ambient outdoor air.
- Close the regulators on the SUMMAs subsequent to collecting each sample; replace the brass caps on the intakes of the canisters; and place the canisters into the original shipping containers to be delivered to McCampbell Analytical, Inc. using appropriate chain-of-custody procedures.

The filled SUMMA canisters were delivered to McCampbell Analytical, Inc. following chain-of-custody procedures. Holding times were observed. SCHUTZE & Associates, Inc. requested EPA¹⁰ Method TO-15 analyses for all soil vapor samples. The TO-15

⁹ Milliliter per minute

¹⁰ Environmental Protection Agency

method uses a gas chromatograph with a mass spectrometer detector, analogous to the U.S. EPA Method 8260B used to analyze soil and groundwater samples for VOCs.

Due to matrix interference (as reported by the laboratory), soil vapor sample SV-2 was analyzed using EPA Method 8260.

E. LABORATORY RESULTS FOR SOIL AND GROUNDWATER

Soil and groundwater samples were delivered to McCampbell Analytical, Inc. following standard chain-of-custody procedures. Holding times were observed. Field observations were considered when selecting the specific soil samples for analyses, including visual/odoriferous signs of contamination and PID readings.

Submitted samples and corresponding analyses are as follows:

- Soil samples B1-8', B1-14' and SV-2.5' were submitted to be analyzed for VOCs (EPA Method 8260B).
- Soil samples B1-8', B1-14', B1-20', B2-8', B3-7', B4-7' and SV-2.5' were submitted and analyzed for TPH-g, TPH-d and TPH-mo¹¹ (EPA Method 8015B).
- Groundwater samples B-1-W and B-3-W were submitted and analyzed for VOCs (EPA Method 8260B) and TPH-g, TPH-d and TPH-mo (EPA Method 8015B).
- Groundwater sample B-1-W was submitted and analyzed for LUFT 5 Metals¹² (EPA Method E200.8).

Soil analytical results for TPH and VOCs are tabulated in the attached Table 6. Groundwater analytical results for TPH and VOCs are tabulated in the attached Table 7. The complete laboratory report is attached as Appendix A.

Soil and groundwater analytical results were compared to the environmental screening levels (ESLs) of the San Francisco Bay Area Regional Water Quality Control Board (RWQCB) at commercial/industrial sites that are not a source of drinking water.¹³

E.1 Compounds Detected at or Above Corresponding ESLs

Compounds detected at or above corresponding ESLs are tabulated in Table 4 below. Detected compounds not regulated by the RWQCB are not included, unless they are indicative of potential contamination not already identified by regulated compounds.

¹¹ Total petroleum hydrocarbons as gasoline, diesel and motor oil

¹² Five metals commonly associated with leaking under-ground fuel tanks (LUFTs): cadmium, chromium, lead, nickel and zinc

¹³ <http://www.waterboards.ca.gov/sanfranciscobay/esl.shtml> (Table B-2)

TABLE 4
Compounds Detected in Soil and Groundwater at or Above Corresponding ESLs
2700 23rd Avenue, Oakland, California

Compound		TPH-g	TPH-d	TPH-mo	Naphthalene
Sampling Locations	Groundwater	B-1-W	B-1-W, B-3-W	B-1-W, B-3-W	B-1-W
	Soil	B1-14', SV-2-5'	B1-14', SV-2-5'	--	--
Highest Concentration	Groundwater	61,000 µg/L	36,000 µg/L	60,000 µg/L	200 µg/L
	Soil	420 mg/kg	710 mg/kg	--	--
ESLs	Groundwater	210 µg/L	210 µg/L	210 µg/L	24 µg/L
	Soil	180 mg/kg	180 mg/kg	2,500 mg/kg	2.8 mg/kg
Description/Notes		Primarily aged gasoline/diesel, sheen on groundwater sample B-1-W		Primarily motor oil-range	Detected only in sample B-1-W
mg/kg = milligrams per kilogram; µg/L = micrograms per liter; -- = not detected at or above ESL; TPH = Total petroleum hydrocarbons specified as gasoline range (TPH-g), diesel range (TPH-d) and motor oil range (TPH-mo); ESLs = Environmental Screening Levels of San Francisco Bay Area Regional Water Quality Control Board (RWQCB) for commercial/industrial sites that are not a source of subsurface drinking water.					

E.2 Boring B1

During drilling, visual/odoriferous petroleum hydrocarbon contamination was observed in boring B1 from approximately six to eighteen ft bgs.

TPH: TPH-g, TPH-d and TPH-mo were detected in groundwater sample B-1-W at concentrations of 61,000, 63,000 and 21,000 micrograms per liter (µg/L), respectively. The corresponding ESL for all three of these compounds is 210 µg/L. Groundwater was encountered at approximately 15 ft bgs in this boring.

The highest TPH-g and TPH-d concentrations in soil from boring B1 were detected at 14 ft bgs at concentrations of 420 and 710 milligrams per kilogram (mg/kg), respectively. The ESL for both of these compounds is 180 mg/kg.

VOCs: Naphthalene was detected in groundwater sample B-1-W at a concentration of 200 µg/L, which exceeds the corresponding ESL of 24 µg/L. Benzene and MTBE¹⁴ were not detected in soil and groundwater samples. No additional VOCs were detected at or above corresponding ESLs at this location.

The contamination in this boring appeared to be aged gasoline and motor oil.

E.3 Boring B3

No soil contamination was observed in this boring during drilling.

TPH: TPH-d and TPH-mo were detected in groundwater sample B-3-W at concentrations of 4,000 and 60,000 µg/L, respectively. The corresponding ESL for both of these compounds is 210 µg/L. TPH-g, TPH-d and TPH-mo were not detected in soil sampled from this boring.

VOCs: Significant concentrations of VOCs were not detected. Benzene and MTBE were not detected.

The contamination in samples from boring B-3 appeared to be motor oil, rather than

¹⁴ Methyl tert-butyl ether

aged gasoline/motor oil as in boring B-1.

E.4 Boring SV-2

Hydrocarbon contamination was observed in this boring at a depth of only 2 ft bgs.

TPH: TPH-g and TPH-d were detected in soil at concentrations of 420 and 370 mg/kg. The ESL for both of these compounds is 180 mg/kg. This soil vapor boring extended to 5 ft bgs. The depth of the TPH contamination at this location is unknown. Groundwater was not encountered.

E.5 Other Soil Borings and Soil Vapor Borings

Groundwater was encountered only in borings B1 and B3. Based on the analytical results and field work, soil in the areas of borings B2, B4, SV-1, SV-3 and SV-4 appears not to have been impacted by the former gasoline service station.

E.6 Metals

Groundwater sample B-1-W was analyzed for total dissolved LUFT 5 Metals. Nickel was detected at a concentration of 7.2 µg/L. Cadmium, chromium, lead and zinc were not detected with respective detection levels of ND<0.25, ND<0.5, ND<0.5 and ND<5.0 µg/L. The concentrations and/or detection levels were less than corresponding ESLs.

F. LABORATORY RESULTS FOR SOIL VAPOR SAMPLES

Soil vapor analytical results are tabulated in the attached Table 8. The complete laboratory report is attached as Appendix A. Soil vapor analytical results were compared to ESLs of the San Francisco Bay Area RWQCB for the evaluation of potential vapor intrusion concerns.¹⁵

F.1 Compounds Detected at or Above Corresponding ESLs

Compounds detected at or above corresponding ESLs are tabulated in Table 5 below. Detected compounds not regulated by the RWQCB are not included, unless they are indicative of potential contamination not already identified by regulated compounds.

¹⁵ <http://www.waterboards.ca.gov/sanfranciscobay/esl.shtml> (Table E-2)

TABLE 5
Compounds Detected in Soil Vapor at or Above Corresponding ESLs
2700 23rd Avenue, Oakland, California

Compound	Naphthalene	Ethylbenzene
Soil Vapor Sampling Locations	SV-2	SV-2
Highest Concentration	850 µg/m ³	8,100 µg/m ³
ESLs	240 µg/m ³	3,300 µg/m ³
Description/Notes	Compounds detected only in sample SV-2	
<small>µg/m³ = micrograms per cubic meter; ESLs = Environmental Screening Levels of the San Francisco Bay Area Regional Water Quality Control Board (RWQCB) for the evaluation of potential vapor intrusion concerns.</small>		

F.2 Naphthalene and Ethylbenzene

Naphthalene and ethylbenzene were detected in soil vapor sample SV-2 at respective concentrations of 850 and 8,100 micrograms per cubic meter (µg/m³), which exceeds the corresponding ESLs of 240 and 3,300 µg/m³, respectively. The location at which these concentrations were detected is consistent with the highest TPH-g and TPH-d concentrations detected in soil and groundwater at the site. Naphthalene and ethylbenzene commonly exist in petroleum hydrocarbon mixtures.

Naphthalene was not detected in soil vapor samples SV-1, SV-3 or SV-4. Ethylbenzene was not detected in soil vapor sample SV-4, and was detected in SV-1 and SV-3 at negligible concentrations of 28 and 25 µg/m³.

F.3 Other VOCs

The compounds acetone, benzene, methyl isobutyl ketone, tetrachloroethene (PCE), toluene and xylenes were detected in soil vapor at concentrations of up to 380, 50, 11, 18, 3,100, and 28,000 ug/m³, respectively. These concentrations were well below the corresponding ESLs of 1,800,000, 280, 1,800,000, 1,400, 180,000 and 58,000 µg/m³.

The PCE concentration of 18 ug/m³ was detected at the southeast property boundary. The concentration appears to be the result of a small, historic, localized spill and does not appear indicative of significant, on-site contamination. PCE is often used as a solvent for cleaning metal parts, and is commonly detected in low concentrations at former gasoline service station sites.

G. DATA VALIDATION AND QUALITY CONTROL

G.1 Quality Control and Chain-of-Custody

The drilling and sampling equipment was appropriately decontaminated between borings and all field procedures were appropriate to minimize external sample contamination. McCampbell Analytical, Inc. provided sample containers in good condition and the samples were delivered to McCampbell Analytical in accordance with chain-of-custody procedures. The lab provided "Level II" Quality Control Data Reporting, which consists of Laboratory Control Sample (LCS) and surrogate

recoveries.

G.2 Data Validation

All laboratory results underwent data validation. The purpose of data validation is to determine the degree of usability of the data. Laboratory results may be qualified as estimated (“J” or “UJ” flags) or may be rejected (“R” flagged). Rejected data is not usable for most purposes.

Results were reviewed for holding time, surrogate recovery, laboratory control sample (LCS) recoveries (accuracy), matrix spike and matrix spike duplicate (MS/MSD) recoveries (accuracy) and the relative percent difference (RPD) between the recoveries (precision), method blanks (contamination), and reporting limits and dilutions (sensitivity). Although, for this level of validation, chromatograms were not reviewed, laboratory descriptions of chromatograms were used to qualify results.

The validation resulted in the following observations, qualifications, and/or changes:

- The reporting limit was raised for groundwater sample B-1-W (DF=10). Based on the laboratory report, it appears that the reporting limit for this sample was raised due to high TPH concentrations in the sample. Although certain data quality objectives (DQOs) were compromised, the raised reporting limits are unlikely to affect the conclusions of this investigation and the associated recommendations.
- The reporting limits were raised for soil samples B1-8' (DF=2.0), B1-14' (DF=200) and SV-2-5' (DF=40). Based on the laboratory report, it appears that the reporting limits for these samples were raised due to high TPH concentrations in the sample. Although certain DQOs were compromised, the raised reporting limits are unlikely to affect the conclusions of this investigation and the associated recommendations (the soil will likely need to be further characterized and remediated).
- The reporting limits were raised for sample SV-2 (DF=500 for most analytes). Based on the laboratory report, it appears that the reporting limits for this sample were raised due to high TPH concentrations in the sample. Although certain DQOs were compromised, the raised reporting limits are unlikely to affect the conclusions and recommendations of this investigation.

H. CONCLUSION

SCHUTZE & Associates, Inc. has completed a Subsurface Investigation for the property located at 2700 23rd Avenue, Oakland, California (subject site). The work was conducted in accordance with the scope and limitations of ASTM Practice E 1903-97 (re-approved 2002). A drilling permit was obtained from the Alameda County Department of Public Works.

Four soil borings were advanced to approximately 22 ft bgs and four additional soil vapor borings were advanced to approximately five ft bgs. Shallow, perched groundwater was encountered in two of the deeper borings (B1 and B3). In total, two

groundwater samples, ten soil samples, four soil vapor samples and one ambient outdoor air sample were collected and submitted for analyses.

Based on field observations and laboratory results, soil, shallow perched groundwater at 15 to 20 ft bgs and soil vapor beneath the southwest portion of the subject site have been impacted by aged diesel and gasoline. Benzene and MTBE were not detected in soil and groundwater samples. The likely sources of the contamination are former leaking USTs and/or associated piping. TPH-g, TPH-d and naphthalene were detected in groundwater at concentrations of 61,000, 36,000 and 200 µg/L, respectively (boring B1). TPH-g and TPH-d were detected in soil at concentrations of 420 and 710 mg/kg (approximately 14 ft bgs). In boring B3, the contamination appears to consist mainly of TPH-mo. There is a potential that the aged gasoline and diesel contamination has migrated in shallow groundwater in southwesterly direction beneath the sidewalks and East 27th Street. Based on the low permeability of the silty clay which underlies the site, the size of the impacted area is expected to be limited.

TPH-g, TPH-d, TPH-mo, naphthalene and ethylbenzene were detected at the site above the corresponding ESLs of the San Francisco Bay Area RWQCB.

I. RECOMMENDATIONS

Based on the results of the soil, groundwater and soil vapor survey, SCHUTZE & Associates, Inc. recommends the following:

- Conducting a geophysical survey of the asphalt parking lot and any other accessible areas of the subject site to investigate whether USTs and associated product lines still exist in the subsurface at the site.
- Determining the vertical and lateral extent of the soil and groundwater contamination in order to evaluate remediation strategies. This investigation should consist of the drilling of additional soil borings and the installation of, initially, three groundwater monitoring wells.
- Test pitting and limited soil removal, based on the results of the soil and groundwater investigation.
- Assisting the owner with the identification of a Potentially Responsible Party (PRP), such as a currently operating oil company.
- Assisting the owner with qualification under the California UST Fund for reimbursement of the remediation costs for the subject site.

We have enjoyed working on this project and appreciate the opportunity to be of service. Please call SCHUTZE & Associates, Inc. at (510) 434-1333 with questions or comments about this report.

Respectfully submitted:

SCHUTZE & ASSOCIATES, INC.



Jan H. Schutze, P.G., M.Sc.
President

Attachments

Acronyms and Abbreviations

Figure 1 – Site Map with Soil Boring and Soil Vapor Boring Locations

Table 6 – Soil Analytical Results for TPH and VOCs

Table 7 – Groundwater Analytical Results for TPH and VOCs

Table 8 – Soil Vapor Analytical Results for VOCs

Site Photographs

Appendices

Appendix A: Laboratory Reports and Chain-of-Custody Forms

Appendix B: Boring Logs

Appendix C: Well Permit

ACRONYMS & ABBREVIATIONS

ACRONYMS & ABBREVIATIONS

µg/L	Micrograms per liter
µg/m ³	Micrograms per cubic meter
AAI	All Appropriate Inquiry
ACC	ACC Environmental Consultants
APN(s)	Assessor's Parcel Number(s)
AST(s)	Aboveground storage tank(s)
BTEX	Benzene, toluene, ethylbenzene and xylenes
COC(s)	Compound(s) of concern
CSM	Conceptual site model
DCA	Dichloroethane
DCE	Dichloroethene
ESA	Environmental site assessment
ESL(s)	Environmental screening level(s)
ft above msl	Feet above mean sea level
ft bgs	Feet below ground surface
ft ²	Square feet
GPR	Ground penetrating radar
HSP	Health and Safety Plan
HVOC(s)	Halogenated volatile organic compound(s)
LCS	Laboratory control sample
LUFT(s)	Leaking underground fuel tank(s)
LUST(s)	Leaking underground storage tank(s)
MBTEX	Methyl tert-butyl ether, benzene, toluene, ethylbenzene and xylenes
MCL(s)	Maximum contamination level(s)
MD	Metal detection
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
MS/MSD	Matrix spike/matrix spike duplicate
MTBE	Methyl tert-butyl ether
ND	Non-Detect (not detected above the reporting limit)
OCP(s)	Organochlorine pesticide(s)
OPP(s)	Organophosphorous pesticide(s)
PAH(s)/PNA(s)	Polynuclear aromatic hydrocarbon(s)
PCB(s)	Polychlorinated biphenyl(s)
PCE	Tetrachloroethene
P.G.	Professional Geologist
PID	Photo Ionization Detector
ppm	Parts per million
PRG(s)	Preliminary remediation goal(s)
QA/QC	Quality Assurance/Quality Control

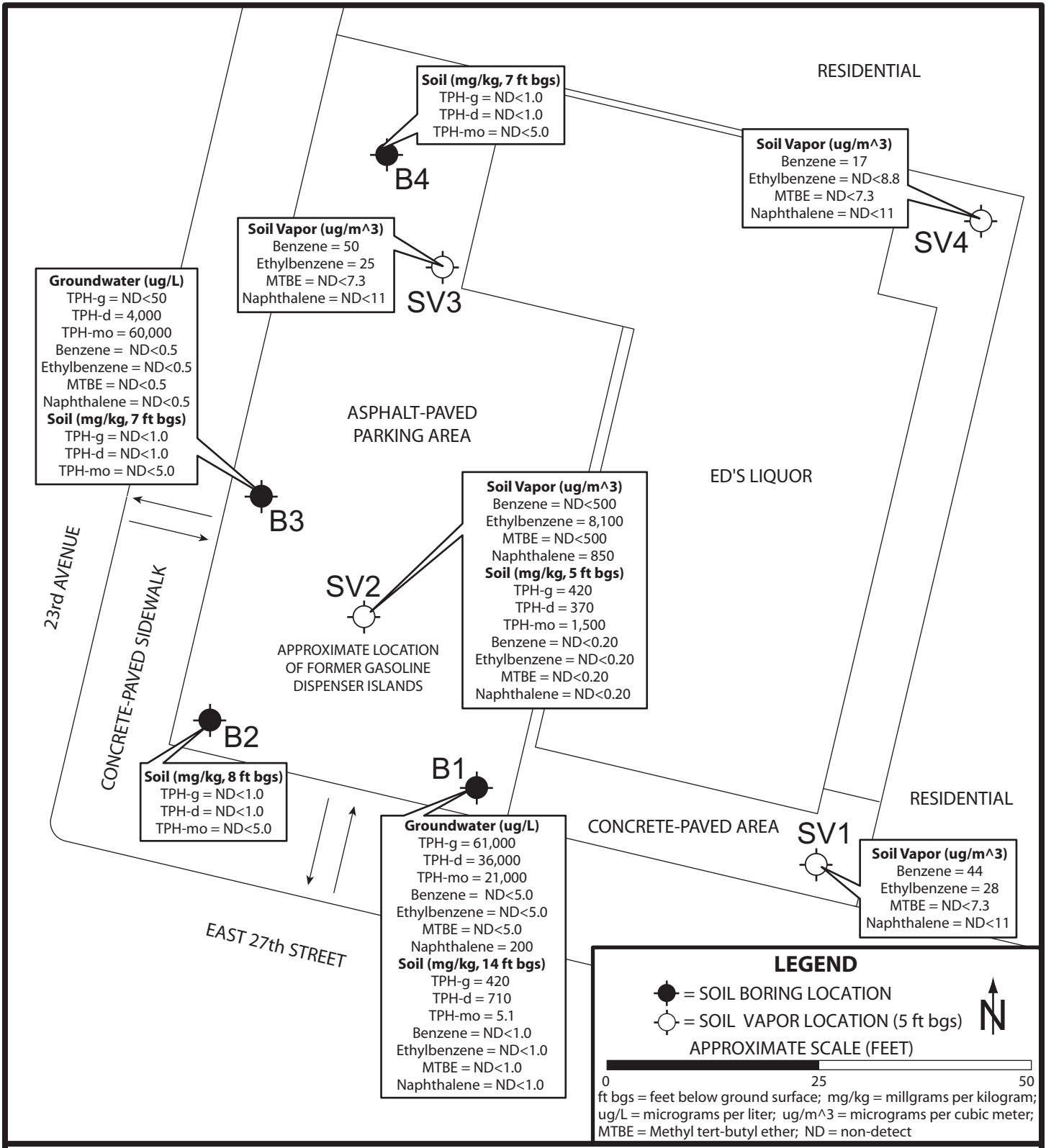
RAP	Remedial Action Plan
REC(s)	Recognized environmental condition(s)
RPD	Relative percent difference
SL	Screening level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC(s)	Semi volatile organic compound(s)
TAME	Tert-amyl methyl ether
TCA	Trichloroethane
TCE	Trichloroethene
TDS	Total dissolved solids
TO	Toxic organic
TPH	Total petroleum hydrocarbons
TPH-bo	Total petroleum hydrocarbons as bunker oil
TPH-d	Total petroleum hydrocarbons as diesel
TPH-dro	Total petroleum hydrocarbons as hydraulic oil
TPH-g	Total petroleum hydrocarbons as gasoline
TPH-ho	Total petroleum hydrocarbons as heating oil
TPH-k	Total petroleum hydrocarbons as kerosene
TPH-mo	Total petroleum hydrocarbons as motor oil
TRG(s)	Target remediation goal(s)
TRPH	Total recoverable petroleum hydrocarbons
TTLIC	Total threshold limit concentration
TVPH	Total volatile petroleum hydrocarbons
UST(s)	Underground storage tank(s)
VC	Vinyl chloride
VMG	Vertical magnetic gradient
VOA	Volatile organics analysis
VOC(s)	Volatile organic compound(s)

GOVERNMENT / AGENCY ACRONYMS

ASTM	American Society for Testing and Materials
CA DPH	California Department of Public Health
CA FID	California Facility Inventory Database
Cal/EPA	California Environmental Protection Agency
CAM	California Assessment Manual
CCR	California Code of Regulations
CDC	U.S. Center for Disease Control
CERCLIS	Comprehensive Environmental Response, Compensation & Liability Information System

CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHHSL(s)	California Human Health Screening Level(s)
CHMIRS	California Hazardous Material Incident Report System
CORRACTS	Corrective Action Sites
DHS	(California) Department of Health Services
DTSC	Department of Toxic Substances Control
DWR	(California) Department of Water Resources
ELAP	Environmental Laboratory Accreditation Program
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
FINDS	Facility Index System
HAZNET	Hazardous Waste Information System
HSC	Health and Safety Code
NFA	No Further Action
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List (Superfund sites)
OSHA	Occupational Safety & Health Administration
RCRA	Resource Conservation & Recovery Act of 1976
RCRA-LQG	Large Quantity Generator (per RCRA)
RCRA-NonGen	Non-Generator (per RCRA)
RCRA-SQG	Small Quantity Generator (per RCRA)
RWQCB	Regional Water Quality Control Board
SCVWD	Santa Clara Valley Water District
SLIC	Spills, Leaks, Investigation & Cleanups
SWEEPS	Statewide Environmental Evaluation & Planning System
SWRCB	(California) State Water Resources Control Board
TSCA	Toxic Substance Control Act
USA	Underground Services Alert (California)
USGS	United States Geological Survey
VCP	Voluntary Cleanup Program

FIGURE 1



**SITE MAP WITH SOIL BORING & SOIL VAPOR BORING LOCATIONS
 2700 23rd AVENUE
 OAKLAND, CALIFORNIA**

TABLES 6 – 8

TABLE 6
Soil Analytical Results (mg/kg) for TPH (EPA 8015B) and VOCs (EPA 8026B)
2700 23rd Avenue, Oakland, California

Sample ID	TPH-g	TPH-d	TPH-mo	Acetone	Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyl toluene	Methyl-t-butyl ether	MIBK	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
B1-8'	43	33	ND<5.0	ND<0.10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	0.028	0.021	0.021	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010
B1-14'	420	710	5.1	ND<10	ND<1.0	ND<1.0	2.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4.2	2.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
B1-20'	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-8'	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-7'	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4-7'	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-2-5'	420	370	1,500	ND<2.0	ND<0.20	ND<0.20	0.35	0.27	ND<0.20	ND<0.20	ND<0.20	4.9	1.8	0.86	ND<0.20	ND<0.20	0.25	ND<0.20	ND<0.20
ESLs (Commercial)	180	180	2,500	0.50	0.27	4.7	--	--	8.4	3.9	2.8	--	--	--	0.95	9.3	--	--	11

mg/kg = milligrams per kilogram; TPH = total petroleum hydrocarbons specified as gasoline range (-g), diesel range (-d) and motor oil range (-mo); VOCs = volatile organic compounds; MIBK = Methyl isobutyl ketone (4-Methyl-2-pentanone); ND<5.0 = non-detect with a detection level of 5.0; ESLs (Commercial) = Environmental Screening Levels for shallow soil at commercial properties (California Regional Water Quality Control Board - Table B-2).

-- = not analyzed or no ESL listed.

TABLE 7
Groundwater Analytical Results (ug/L) for TPH (EPA 8015B) and VOCs (EPA 8026B)
2700 23rd Avenue, Oakland, California

Sample ID	TPH-g	TPH-d	TPH-mo	Acetone	Benzene	Ethylbenzene	Isopropylbenzene	4-Isopropyl toluene	Methyl-t-butyl ether	MIBK	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	Xylenes
B-1-W	61,000	36,000	21,000	ND<100	ND<5.0	ND<5.0	80	11	ND<5.0	ND<5.0	200	12	110	30	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B-3-W	ND<50	4,000	60,000	ND<10	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ESLs (Commercial)	210	210	210	1,500	46	43	--	--	1,800	170	24	--	--	--	120	130	--	100

ug/L = micrograms per liter; TPH = total petroleum hydrocarbons specified as gasoline range (-g), diesel range (-d) and motor oil range (-mo); VOCs = volatile organic compounds; MIBK = Methyl isobutyl ketone (4-Methyl-2-pentanone); ND<100 = non-detect with a detection level of 100; ESLs (Commercial) = Environmental Screening Levels for groundwater that is not used as drinking water (California Regional Water Quality Control Board - Table F-1b).
 -- = No ESL listed

SCHUTZE & Associates, Inc., August 2010

TABLE 8
Soil Vapor Analytical Results (ug/m³) for VOCs (EPA TO-15
2700 23rd Avenue, Oakland, California:

Sample ID	Acetone	Benzene	Carbon Disulfide	Ethanol	Ethyl acetate	Ethylbenzene	Isopropylbenzene	MIBK	Methyl-t-butyl ether	Naphthalene	n-Propyl benzene	Propene	sec-Butyl benzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
SV-1	220	44	ND<6.3	140	8.6	28	--	ND<8.3	ND<7.3	ND<11	--	250	--	18	270	ND<10	ND<10	100
SV-2*	ND<10,000	ND<500	ND<500	ND<50,000	--	8,100	3,400	ND<500	ND<500	850	4,500	NR	1,100	ND<500	3,100	1,100	910	28,000
SV-3	140	50	86	360	ND<7.3	25	--	ND<8.3	ND<7.3	ND<11	--	310	--	ND<14	220	21	ND<10	69
SV-4	380	17	ND<6.3	1,300	ND<7.3	ND<8.8	--	11	ND<7.3	ND<11	--	ND<88	--	ND<14	120	12	ND<10	ND<27
ELA (Ambient)	ND<120	ND<6.5	ND<6.3	ND<96	ND<7.3	ND<8.8	--	ND<8.3	ND<7.3	ND<11	--	ND<88	--	ND<14	ND<7.7	ND<10	ND<10	ND<27
ESLs (Commercial)	1,800,000	280	..	..	..	3,300	..	1,800,000	31,000	240	..	..	..	1,400	180,000	..	..	58,000
CHHSL (Commercial)	..	122	..	..	..	..	..	..	13,400	106	..	..	..	603	378,000	..	..	879,000

ug/m³ = micrograms per cubic meter; MIBK = Methyl isobutyl ketone (4-Methyl-2-pentanone); ND<6.3 = non-detect with a detection level of 6.3; ESLs (Commercial) = shallow gas screening levels for the evaluation of potential vapor intrusion concerns (California Regional Water Quality Control Board - Table E-2); CHHSLs = California human health screening levels (California Department of Toxic Substances Control).

* Due to matrix interference, this sample was analyzed via EPA method 8260.

-- = not analyzed or not listed

SITE PHOTOGRAPHS



Photograph 1: Drilling was conducted using a Geoprobe 6600 Series direct-push rig.



Photograph 2: Prior to drilling, boring locations were cleared for subsurface utility lines.



Photograph 3: As seen in the background, a photo-ionization detector was used to screen soil, groundwater and ambient air for VOCs.



Photograph 4: A green-stained, moist, silty-sand layer was encountered in soil boring B1 at approximately 13.5 ft bgs.



Photograph 5: Drill rods were decontaminated in between borings to prevent cross contamination.



Photograph 6: The soil vapor sampling set-up for soil vapor sample SV-4. Isopropyl was used as a tracer.

APPENDIX A

LABORATORY REPORTS

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B1-8', B1-14' and SV-2-5'

MATRIX: Soil

Analysis	VOCs (8260B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

The reporting limits were raised for soil samples B1-8' (DF=2.0), B1-14' (DF=200) and SV-2-5' (DF=40). Based on the laboratory report, it appears that the reporting limits for these samples were raised due to high TPH concentrations in the sample. Although certain DQOs were compromised, the raised reporting limits are unlikely to affect the conclusions of this investigation and associated recommendations (the soil will likely need to be further characterized and remediated).

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B-1-W, B-3-W

MATRIX: Groundwater

Analysis	VOCs (8260B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

The reporting limit was raised for groundwater sample B-1-W (DF=10). Based on the laboratory report, it appears that the reporting limit for this sample was raised due to high TPH concentrations in the sample. Although certain DQOs were compromised, the raised reporting limits are unlikely to affect the conclusions of this investigation and associated recommendations (the groundwater will likely need to be further characterized).

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B1-8', B1-14', B1-20', B2-8', B3-7', B4-7', and SV-2-5'

MATRIX: Soil

Analysis	TPH-g (8021B/8015B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	✓

✓ – QC criteria were met.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B-1-W and B-3-W

MATRIX: Groundwater

Analysis	TPH-g (8021B/8015B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	✓

✓ – QC criteria were met.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B-1-W

MATRIX: Groundwater

Analysis	Metals (200.8)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	✓

✓ – QC criteria were met.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B1-8', B1-14', B1-20', B2-8', B3-7', B4-7' and SV-2-5'

MATRIX: Soil

Analysis	TPH-d (8015B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	See notes
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

Analyte concentration in sample exceeded spike amount for soil matrix, LCS conducted.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008025

SAMPLES: B-1-W, B-3-W

MATRIX: Groundwater

Analysis	TPH-d (8015B)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	See notes
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

Not enough sample to perform MS/MSD, LCS conducted.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland,CA	Date Sampled: 07/29/10
		Date Received: 08/02/10
	Client Contact: Ian Sutherland	Date Reported: 08/06/10
	Client P.O.:	Date Completed: 08/06/10

WorkOrder: 1008025

August 06, 2010

Dear Ian:

Enclosed within are:

- 1) The results of the 9 analyzed samples from your project: #SCS370; Ed's Liquor, Oakland,CA,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1008025



McCAMPBELL 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

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Ian Sutherland Bill To: SCHUTZE
 Company: _____
 E-Mail: ian@schutze-inc.com
 Tele: (510) 434-1333 Fax: () _____
 Project #: SC5370 Project Name: Ed's Liquor
 Project Location: Oakland, CA
 Sampler Signature: [Signature]

Analysis Request

Other

Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
B1-8'		7.29.10		1		X	X	X	X	X	X	X	X	X	X	X		
B1-14'				1		X	X	X	X	X	X	X	X	X	X	X		
B1-20'				1		X	X	X	X	X	X	X	X	X	X	X		
B2-8'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
B2-16'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
B3-7'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
B3-12'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
B4-7'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
B4-14'				1		X	X	X	X	X	X	X	X	X	X	X		HOLD
SV-2-5'				1		X	X	X	X	X	X	X	X	X	X	X		

BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	
TPH as Diesel (8015) + g + m	X
Total Petroleum Oil & Grease (1664 / 5520 E/R&F)	X
Total Petroleum Hydrocarbons (418.1)	X
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	X
MTBE / BTEX ONLY (EPA 602 / 8021)	X
EPA 505 / 608 / 8081 (CI Pesticides)	X
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	X
EPA 507 / 8141 (NP Pesticides)	X
EPA 515 / 8151 (Acidic CI Herbicides)	X
EPA 524.2 / 624 / 8260 (VOCs)	X
EPA 525.2 / 625 / 8270 (SVOCs)	X
EPA 8270 SIM / 8310 (PAHs / PNAs)	X
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	X
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	X
Lead (200.7 / 200.8 / 6010 / 6020)	X
Filter sample for DISSOLVED metals analysis	

**Indicate here if these samples are potentially dangerous to handle:

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>8/2/10</u>	Time: <u>1825</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE # 10-2 WEXIC9
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

COMMENTS:
1/2



McCAMPBELL 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

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Ian Sutherland Bill To: SCHUTZE

Company:

E-Mail: ian@schutze-inc.com

Tele: (510) 434.1333

Fax: ()

Project #: SCS370

Project Name: Ed's Liquor

Project Location: Oakland, CA

Sampler Signatures: [Signature]

Analysis Request

Other

Comments

BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	
TPH as Diesel (8015) + g+m	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
EPA 505 / 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
EPA 524.2 / 624 / 8260 (VOCs)	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNAs)	
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Lead (200.7 / 200.8 / 6010 / 6020)	
Filter sample for DISSOLVED metals analysis	

**Indicate here if these samples are potentially dangerous to handle:

Filtered in field

+1
+20

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
B-1-W		7.29.10		7		X					X	X	X				
B-3-W		↓		5		X					X	X	X				

**MAI client: MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>8/2/10</u>	Time: <u>1825</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/° _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

VOAS O&G METALS OTHER
 PRESERVATION pH<2

COMMENTS: 2/2

McC Campbell Analytical, Inc.

1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1008025

ClientCode: SCO

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:
 Ian Sutherland
 Schutze & Associates
 2100 Embarcadero, Suite #100
 Oakland, CA 94606
 (510) 434-1333 FAX (510) 625-8176

Bill to:
 Accounts Payable
 Schutze Consulting
 2100 Embarcadero, Suite #100
 Oakland, CA 94606
 priscillajazz@yahoo.com

Requested TAT: 5 days

Date Received: 08/02/2010
Date Printed: 08/02/2010

Email: js@schutze-inc.com, ian@schutze-inc.co
 cc:
 PO:
 ProjectNo: #SCS370; Ed's Liquor, Oakland,CA

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1008025-001	B1-8'	Soil	7/29/2010	<input type="checkbox"/>	A		A										
1008025-002	B1-14'	Soil	7/29/2010	<input type="checkbox"/>	A		A										
1008025-003	B1-20'	Soil	7/29/2010	<input type="checkbox"/>			A										
1008025-004	B2-8'	Soil	7/29/2010	<input type="checkbox"/>			A										
1008025-006	B3-7'	Soil	7/29/2010	<input type="checkbox"/>			A										
1008025-008	B4-7'	Soil	7/29/2010	<input type="checkbox"/>			A										
1008025-010	SV-2-5'	Soil	7/29/2010	<input type="checkbox"/>	A		A										
1008025-011	B-1-W	Water	7/29/2010	<input type="checkbox"/>		B		A	C								
1008025-012	B-3-W	Water	7/29/2010	<input type="checkbox"/>		B		A									

Test Legend:

1	8260B_S	2	8260B_W	3	G-MBTEX_S	4	G-MBTEX_W	5	LUFTMS DISS
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 006A, 008A, 010A, 011A, 012A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Schutze & Associates**

Date and Time Received: **8/2/2010 6:29:18 PM**

Project Name: **#SCS370; Ed's Liquor, Oakland, CA**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1008025** Matrix Soil/Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
 - Container/Temp Blank temperature Cooler Temp: 6.2°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10
		Date Analyzed: 08/04/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008025

Lab ID	1008025-001A
Client ID	B1-8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.10	2.0	0.05	tert-Amyl methyl ether (TAME)	ND<0.010	2.0	0.005
Benzene	ND<0.010	2.0	0.005	Bromobenzene	ND<0.010	2.0	0.005
Bromochloromethane	ND<0.010	2.0	0.005	Bromodichloromethane	ND<0.010	2.0	0.005
Bromoform	ND<0.010	2.0	0.005	Bromomethane	ND<0.010	2.0	0.005
2-Butanone (MEK)	ND<0.040	2.0	0.02	t-Butyl alcohol (TBA)	ND<0.10	2.0	0.05
n-Butyl benzene	0.028	2.0	0.005	sec-Butyl benzene	0.021	2.0	0.005
tert-Butyl benzene	ND<0.010	2.0	0.005	Carbon Disulfide	ND<0.010	2.0	0.005
Carbon Tetrachloride	ND<0.010	2.0	0.005	Chlorobenzene	ND<0.010	2.0	0.005
Chloroethane	ND<0.010	2.0	0.005	Chloroform	ND<0.010	2.0	0.005
Chloromethane	ND<0.010	2.0	0.005	2-Chlorotoluene	ND<0.010	2.0	0.005
4-Chlorotoluene	ND<0.010	2.0	0.005	Dibromochloromethane	ND<0.010	2.0	0.005
1,2-Dibromo-3-chloropropane	ND<0.0080	2.0	0.004	1,2-Dibromoethane (EDB)	ND<0.0080	2.0	0.004
Dibromomethane	ND<0.010	2.0	0.005	1,2-Dichlorobenzene	ND<0.010	2.0	0.005
1,3-Dichlorobenzene	ND<0.010	2.0	0.005	1,4-Dichlorobenzene	ND<0.010	2.0	0.005
Dichlorodifluoromethane	ND<0.010	2.0	0.005	1,1-Dichloroethane	ND<0.010	2.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.0080	2.0	0.004	1,1-Dichloroethene	ND<0.010	2.0	0.005
cis-1,2-Dichloroethene	ND<0.010	2.0	0.005	trans-1,2-Dichloroethene	ND<0.010	2.0	0.005
1,2-Dichloropropane	ND<0.010	2.0	0.005	1,3-Dichloropropane	ND<0.010	2.0	0.005
2,2-Dichloropropane	ND<0.010	2.0	0.005	1,1-Dichloropropene	ND<0.010	2.0	0.005
cis-1,3-Dichloropropene	ND<0.010	2.0	0.005	trans-1,3-Dichloropropene	ND<0.010	2.0	0.005
Diisopropyl ether (DIPE)	ND<0.010	2.0	0.005	Ethylbenzene	ND<0.010	2.0	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.010	2.0	0.005	Freon 113	ND<0.20	2.0	0.1
Hexachlorobutadiene	ND<0.010	2.0	0.005	Hexachloroethane	ND<0.010	2.0	0.005
2-Hexanone	ND<0.010	2.0	0.005	Isopropylbenzene	ND<0.010	2.0	0.005
4-Isopropyl toluene	ND<0.010	2.0	0.005	Methyl-t-butyl ether (MTBE)	ND<0.010	2.0	0.005
Methylene chloride	ND<0.010	2.0	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.010	2.0	0.005
Naphthalene	ND<0.010	2.0	0.005	n-Propyl benzene	0.021	2.0	0.005
Styrene	ND<0.010	2.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.010	2.0	0.005
1,1,1,2-Tetrachloroethane	ND<0.010	2.0	0.005	Tetrachloroethene	ND<0.010	2.0	0.005
Toluene	ND<0.010	2.0	0.005	1,2,3-Trichlorobenzene	ND<0.010	2.0	0.005
1,2,4-Trichlorobenzene	ND<0.010	2.0	0.005	1,1,1-Trichloroethane	ND<0.010	2.0	0.005
1,1,2-Trichloroethane	ND<0.010	2.0	0.005	Trichloroethene	ND<0.010	2.0	0.005
Trichlorofluoromethane	ND<0.010	2.0	0.005	1,2,3-Trichloropropane	ND<0.010	2.0	0.005
1,2,4-Trimethylbenzene	ND<0.010	2.0	0.005	1,3,5-Trimethylbenzene	ND<0.010	2.0	0.005
Vinyl Chloride	ND<0.010	2.0	0.005	Xylenes	ND<0.010	2.0	0.005

Surrogate Recoveries (%)

%SS1:	110	%SS2:	87
%SS3:	78		

Comments:

* 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.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10
		Date Analyzed: 08/05/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008025

Lab ID	1008025-002A
Client ID	B1-14'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	200	0.05	tert-Amyl methyl ether (TAME)	ND<1.0	200	0.005
Benzene	ND<1.0	200	0.005	Bromobenzene	ND<1.0	200	0.005
Bromochloromethane	ND<1.0	200	0.005	Bromodichloromethane	ND<1.0	200	0.005
Bromoform	ND<1.0	200	0.005	Bromomethane	ND<1.0	200	0.005
2-Butanone (MEK)	ND<4.0	200	0.02	t-Butyl alcohol (TBA)	ND<1.0	200	0.05
n-Butyl benzene	ND<1.0	200	0.005	sec-Butyl benzene	2.5	200	0.005
tert-Butyl benzene	ND<1.0	200	0.005	Carbon Disulfide	ND<1.0	200	0.005
Carbon Tetrachloride	ND<1.0	200	0.005	Chlorobenzene	ND<1.0	200	0.005
Chloroethane	ND<1.0	200	0.005	Chloroform	ND<1.0	200	0.005
Chloromethane	ND<1.0	200	0.005	2-Chlorotoluene	ND<1.0	200	0.005
4-Chlorotoluene	ND<1.0	200	0.005	Dibromochloromethane	ND<1.0	200	0.005
1,2-Dibromo-3-chloropropane	ND<0.80	200	0.004	1,2-Dibromoethane (EDB)	ND<0.80	200	0.004
Dibromomethane	ND<1.0	200	0.005	1,2-Dichlorobenzene	ND<1.0	200	0.005
1,3-Dichlorobenzene	ND<1.0	200	0.005	1,4-Dichlorobenzene	ND<1.0	200	0.005
Dichlorodifluoromethane	ND<1.0	200	0.005	1,1-Dichloroethane	ND<1.0	200	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.80	200	0.004	1,1-Dichloroethene	ND<1.0	200	0.005
cis-1,2-Dichloroethene	ND<1.0	200	0.005	trans-1,2-Dichloroethene	ND<1.0	200	0.005
1,2-Dichloropropane	ND<1.0	200	0.005	1,3-Dichloropropane	ND<1.0	200	0.005
2,2-Dichloropropane	ND<1.0	200	0.005	1,1-Dichloropropene	ND<1.0	200	0.005
cis-1,3-Dichloropropene	ND<1.0	200	0.005	trans-1,3-Dichloropropene	ND<1.0	200	0.005
Diisopropyl ether (DIPE)	ND<1.0	200	0.005	Ethylbenzene	ND<1.0	200	0.005
Ethyl tert-butyl ether (ETBE)	ND<1.0	200	0.005	Freon 113	ND<20	200	0.1
Hexachlorobutadiene	ND<1.0	200	0.005	Hexachloroethane	ND<1.0	200	0.005
2-Hexanone	ND<1.0	200	0.005	Isopropylbenzene	2.8	200	0.005
4-Isopropyl toluene	ND<1.0	200	0.005	Methyl-t-butyl ether (MTBE)	ND<1.0	200	0.005
Methylene chloride	ND<1.0	200	0.005	4-Methyl-2-pentanone (MIBK)	ND<1.0	200	0.005
Naphthalene	ND<1.0	200	0.005	n-Propyl benzene	4.2	200	0.005
Styrene	ND<1.0	200	0.005	1,1,1,2-Tetrachloroethane	ND<1.0	200	0.005
1,1,2,2-Tetrachloroethane	ND<1.0	200	0.005	Tetrachloroethene	ND<1.0	200	0.005
Toluene	ND<1.0	200	0.005	1,2,3-Trichlorobenzene	ND<1.0	200	0.005
1,2,4-Trichlorobenzene	ND<1.0	200	0.005	1,1,1-Trichloroethane	ND<1.0	200	0.005
1,1,2-Trichloroethane	ND<1.0	200	0.005	Trichloroethene	ND<1.0	200	0.005
Trichlorofluoromethane	ND<1.0	200	0.005	1,2,3-Trichloropropane	ND<1.0	200	0.005
1,2,4-Trimethylbenzene	ND<1.0	200	0.005	1,3,5-Trimethylbenzene	ND<1.0	200	0.005
Vinyl Chloride	ND<1.0	200	0.005	Xylenes	ND<1.0	200	0.005

Surrogate Recoveries (%)

%SS1:	116	%SS2:	83
%SS3:	88		

Comments:

* 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.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10
		Date Analyzed: 08/04/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008025

Lab ID	1008025-010A
Client ID	SV-2-5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2.0	40	0.05	tert-Amyl methyl ether (TAME)	ND<0.20	40	0.005
Benzene	ND<0.20	40	0.005	Bromobenzene	ND<0.20	40	0.005
Bromochloromethane	ND<0.20	40	0.005	Bromodichloromethane	ND<0.20	40	0.005
Bromoform	ND<0.20	40	0.005	Bromomethane	ND<0.20	40	0.005
2-Butanone (MEK)	ND<0.80	40	0.02	t-Butyl alcohol (TBA)	ND<2.0	40	0.05
n-Butyl benzene	4.9	40	0.005	sec-Butyl benzene	0.86	40	0.005
tert-Butyl benzene	ND<0.20	40	0.005	Carbon Disulfide	ND<0.20	40	0.005
Carbon Tetrachloride	ND<0.20	40	0.005	Chlorobenzene	ND<0.20	40	0.005
Chloroethane	ND<0.20	40	0.005	Chloroform	ND<0.20	40	0.005
Chloromethane	ND<0.20	40	0.005	2-Chlorotoluene	ND<0.20	40	0.005
4-Chlorotoluene	ND<0.20	40	0.005	Dibromochloromethane	ND<0.20	40	0.005
1,2-Dibromo-3-chloropropane	ND<0.16	40	0.004	1,2-Dibromoethane (EDB)	ND<0.16	40	0.004
Dibromomethane	ND<0.20	40	0.005	1,2-Dichlorobenzene	ND<0.20	40	0.005
1,3-Dichlorobenzene	ND<0.20	40	0.005	1,4-Dichlorobenzene	ND<0.20	40	0.005
Dichlorodifluoromethane	ND<0.20	40	0.005	1,1-Dichloroethane	ND<0.20	40	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.16	40	0.004	1,1-Dichloroethene	ND<0.20	40	0.005
cis-1,2-Dichloroethene	ND<0.20	40	0.005	trans-1,2-Dichloroethene	ND<0.20	40	0.005
1,2-Dichloropropane	ND<0.20	40	0.005	1,3-Dichloropropane	ND<0.20	40	0.005
2,2-Dichloropropane	ND<0.20	40	0.005	1,1-Dichloropropene	ND<0.20	40	0.005
cis-1,3-Dichloropropene	ND<0.20	40	0.005	trans-1,3-Dichloropropene	ND<0.20	40	0.005
Diisopropyl ether (DIPE)	ND<0.20	40	0.005	Ethylbenzene	ND<0.20	40	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.20	40	0.005	Freon 113	ND<4.0	40	0.1
Hexachlorobutadiene	ND<0.20	40	0.005	Hexachloroethane	ND<0.20	40	0.005
2-Hexanone	ND<0.20	40	0.005	Isopropylbenzene	0.35	40	0.005
4-Isopropyl toluene	0.27	40	0.005	Methyl-t-butyl ether (MTBE)	ND<0.20	40	0.005
Methylene chloride	ND<0.20	40	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.20	40	0.005
Naphthalene	ND<0.20	40	0.005	n-Propyl benzene	1.8	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005	Tetrachloroethene	ND<0.20	40	0.005
Toluene	ND<0.20	40	0.005	1,2,3-Trichlorobenzene	ND<0.20	40	0.005
1,2,4-Trichlorobenzene	ND<0.20	40	0.005	1,1,1-Trichloroethane	ND<0.20	40	0.005
1,1,2-Trichloroethane	ND<0.20	40	0.005	Trichloroethene	ND<0.20	40	0.005
Trichlorofluoromethane	ND<0.20	40	0.005	1,2,3-Trichloropropane	ND<0.20	40	0.005
1,2,4-Trimethylbenzene	0.25	40	0.005	1,3,5-Trimethylbenzene	ND<0.20	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	ND<0.20	40	0.005

Surrogate Recoveries (%)

%SS1:	114	%SS2:	90
%SS3:	88		

Comments:

* 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.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/05/10
		Date Analyzed: 08/05/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008025

Lab ID	1008025-011B
Client ID	B-1-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	12	10	0.5	sec-Butyl benzene	30	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	80	10	0.5
4-Isopropyl toluene	11	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	200	10	0.5	n-Propyl benzene	110	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	114	%SS2:	102
%SS3:	101		

Comments: b6,b1

* 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.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/04/10
		Date Analyzed: 08/04/10

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008025

Lab ID	1008025-012B
Client ID	B-3-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	121	%SS2:	105
%SS3:	103		

Comments: b1

* 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.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment

b6) lighter than water immiscible sheen/product is present



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland,CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10-08/05/10
		Date Analyzed 08/03/10-08/05/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Bm

Work Order: 1008025

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B1-8'	S	43	1	107	d7,d9
002A	B1-14'	S	420	20	105	d7,d9
003A	B1-20'	S	ND	1	89	
004A	B2-8'	S	ND	1	83	
006A	B3-7'	S	ND	1	89	
008A	B4-7'	S	ND	1	82	
010A	SV-2-5'	S	420	67	86	d7
011A	B-1-W	W	61,000	20	108	d7,d9,b6,b1
012A	B-3-W	W	ND	1	99	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- b6) lighter than water immiscible sheen/product is present
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
- d9) no recognizable pattern

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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10
		Date Analyzed: 08/06/10

LUFT 5 Metals*

Extraction method: E200.8

Analytical methods: E200.8

Work Order: 1008025

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
011C	B-1-W	W	DISS.	ND	ND	ND	7.2	ND	1	N/A	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.25	0.5	0.5	0.5	5.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA	NA

*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/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/02/10
		Date Analyzed: 08/02/10-08/05/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C/SW3550B

Analytical methods: SW8015B

Work Order: 1008025

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1008025-001A	B1-8'	S	33	ND	1	111	e8/e11
1008025-002A	B1-14'	S	710	5.1	1	113	e8/e11
1008025-003A	B1-20'	S	ND	ND	1	116	
1008025-004A	B2-8'	S	ND	ND	1	115	
1008025-006A	B3-7'	S	ND	ND	1	119	
1008025-008A	B4-7'	S	ND	ND	1	117	
1008025-010A	SV-2-5'	S	370	1500	50	94	e7,e11/e8
1008025-011A	B-1-W	W	36,000	21,000	10	116	e11/e8,e7,b6,b1
1008025-012A	B-3-W	W	4000	60,000	50	95	e7,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	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.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e7) oil range compounds are significant
e8) kerosene/kerosene range/jet fuel range; and/or e11) stoddard solvent/mineral spirit (?)
e11) stoddard solvent/mineral spirit (?); and/or e8) kerosene/kerosene range/jet fuel range

R _____
Analyst: _____
Lab Manager: _____



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52202

WorkOrder 1008025

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1008025-012A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	60	121	126	4.22	119	123	3.71	70 - 130	20	70 - 130	20
MTBE	ND	10	115	109	5.34	103	111	7.35	70 - 130	20	70 - 130	20
Benzene	ND	10	90.2	87.1	3.53	89.2	89.8	0.687	70 - 130	20	70 - 130	20
Toluene	ND	10	88.8	86	3.23	87.6	88.2	0.738	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	88.9	87.4	1.68	87.4	89.2	2.02	70 - 130	20	70 - 130	20
Xylenes	ND	30	88	86.2	2.05	86.1	88.7	2.95	70 - 130	20	70 - 130	20
%SS:	99	10	92	89	3.68	93	89	3.82	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 52202 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-011A	07/29/10	08/03/10	08/03/10 12:45 PM	1008025-012A	07/29/10	08/03/10	08/03/10 7:21 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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 content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 52216

WorkOrder 1008025

Analyte	Extraction SW5030B			Spiked Sample ID: 1008027-003A								
	Sample mg/Kg	Spiked mg/Kg	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
tert-Amyl methyl ether (TAME)	ND	0.050	76.8	76.3	0.594	80.7	84.8	5.02	70 - 130	30	70 - 130	30
Benzene	ND	0.050	106	107	1.23	106	113	6.44	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	96.1	96.9	0.829	96.8	99.7	2.90	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	115	112	2.67	115	120	4.77	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	101	1.06	104	109	4.39	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	110	106	3.09	112	119	6.71	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	103	103	0	106	109	3.00	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	101	104	2.45	105	112	6.51	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	88.8	89.1	0.404	89.3	95	6.15	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	94.7	91.9	2.95	95.5	99.9	4.43	70 - 130	30	70 - 130	30
Toluene	ND	0.050	113	114	0.478	115	122	5.26	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	113	112	0.526	114	117	3.00	70 - 130	30	70 - 130	30
%SS1:	108	0.13	103	111	6.70	108	105	2.73	70 - 130	30	70 - 130	30
%SS2:	101	0.13	116	114	1.07	115	115	0	70 - 130	30	70 - 130	30
%SS3:	102	0.013	112	120	7.28	120	118	1.72	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 52216 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-001A	07/29/10	08/02/10	08/04/10 2:13 PM	1008025-002A	07/29/10	08/02/10	08/05/10 2:50 PM
1008025-010A	07/29/10	08/02/10	08/04/10 3:56 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.

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 content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52235

WorkOrder 1008025

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1008016-001A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	92.5	89.4	3.47	89.1	91.2	2.38	70 - 130	30	70 - 130	30
Benzene	ND	10	105	103	1.65	113	112	0.829	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	104	105	0.824	73.4	76.8	4.50	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	112	113	0.772	109	110	0.372	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	113	119	4.92	103	104	1.51	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	120	116	3.23	111	113	1.50	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	100	103	2.30	110	109	1.09	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	108	104	4.08	113	115	2.24	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	96.8	94.7	2.25	106	110	3.06	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	1.5	10	99.6	102	2.05	113	114	1.24	70 - 130	30	70 - 130	30
Toluene	ND	10	99.4	104	4.20	109	109	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	114	112	1.82	107	107	0	70 - 130	30	70 - 130	30
%SS1:	117	25	117	113	3.42	118	117	0.788	70 - 130	30	70 - 130	30
%SS2:	98	25	106	107	1.08	104	104	0	70 - 130	30	70 - 130	30
%SS3:	98	2.5	95	98	3.39	102	105	3.12	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 52235 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-011B	07/29/10	08/05/10	08/05/10 6:22 PM	1008025-012B	07/29/10	08/04/10	08/04/10 10:03 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 enough sample to perform matrix spike and matrix spike duplicate.

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 content.

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 52193

WorkOrder 1008025

Analyte	EPA Method SW8015Bm		Extraction SW5030B						Spiked Sample ID: 1007835-001A			
	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(btex) ^f	ND	0.60	96.3	94.8	1.53	97.9	95.7	2.23	70 - 130	20	70 - 130	20
MTBE	ND	0.10	110	110	0	115	115	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	109	108	0.983	109	115	5.04	70 - 130	20	70 - 130	20
Toluene	ND	0.10	93.8	94.3	0.508	95.6	98.7	3.19	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	97.6	97.5	0.108	98.3	101	2.97	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	109	108	0.680	109	113	3.25	70 - 130	20	70 - 130	20
%SS:	80	0.10	101	101	0	101	104	2.45	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 52193 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-001A	07/29/10	08/02/10	08/03/10 5:34 PM	1008025-002A	07/29/10	08/02/10	08/03/10 4:20 PM
1008025-003A	07/29/10	08/02/10	08/03/10 6:06 PM	1008025-004A	07/29/10	08/02/10	08/05/10 3:19 AM
1008025-006A	07/29/10	08/02/10	08/03/10 7:43 PM	1008025-008A	07/29/10	08/02/10	08/03/10 8:14 PM
1008025-010A	07/29/10	08/02/10	08/04/10 3:21 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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 content.



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52227

WorkOrder 1008025

EPA Method E200.8		Extraction E200.8							Spiked Sample ID: 1008003-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	10	98.4	98	0.407	97.8	97.1	0.636	70 - 130	20	85 - 115	20
Chromium	ND	10	101	102	0.677	101	100	1.19	70 - 130	20	85 - 115	20
Lead	ND	10	99.5	99.3	0.251	97.5	96.6	0.948	70 - 130	20	85 - 115	20
Nickel	ND	10	100	99.2	0.862	102	101	1.87	70 - 130	20	85 - 115	20
Zinc	6.9	100	98.6	99.5	0.849	101	98.3	2.75	70 - 130	20	85 - 115	20
%SS:	108	750	106	108	1.89	108	98	9.64	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 52227 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-011C	07/29/10	08/02/10	08/06/10 11:11 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 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 content.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 52238

WorkOrder 1008025

Analyte	Extraction SW3550B			Spiked Sample ID: 1008025-010A								
	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-Diesel (C10-C23)	370	40	NR	NR	NR	125	127	1.18	70 - 130	30	70 - 130	30
%SS:	94	25	99	112	12.0	102	101	1.35	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 52238 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-001A	07/29/10	08/02/10	08/03/10 2:13 AM	1008025-002A	07/29/10	08/02/10	08/02/10 10:46 PM
1008025-003A	07/29/10	08/02/10	08/03/10 10:10 AM	1008025-004A	07/29/10	08/02/10	08/03/10 9:00 AM
1008025-006A	07/29/10	08/02/10	08/03/10 6:44 AM	1008025-008A	07/29/10	08/02/10	08/03/10 5:36 AM
1008025-010A	07/29/10	08/02/10	08/03/10 7:51 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.

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 content.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52224

WorkOrder 1008025

Analyte	EPA Method SW8015B		Extraction SW3510C						Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	87	89	2.58	N/A	N/A	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 52224 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008025-011A	07/29/10	08/02/10	08/04/10 5:42 AM	1008025-012A	07/29/10	08/02/10	08/05/10 9:59 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.

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 content.

LEVEL III Data Validation Report

PROJECT: SCS370 – 2700 23rd Avenue, Oakland, CA

LABORATORY: McCampbell Analytical, Inc. (ELAP Certification 1644)

LAB REPORT NUMBER: 1008030

SAMPLES: SV-1, SV-2, SV-3, SV-4, ELA

MATRIX: Soil Vapor

Analysis	VOCs (TO-15)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	See notes
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	N/A
Trip/Field/Equipment Blanks	N/A
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

MS/MSD is not typically conducted for TO-15.

Sample SV-2 was analyzed via EPA method 8260 due to high matrix interference.

The reporting limits were raised for sample SV-2 (DF=500 for most analytes). Based on the laboratory report, it appears that the reporting limits for this sample were raised due to high TPH concentrations in the sample. Although certain DQOs were compromised, the raised reporting limits are unlikely to affect the conclusions and recommendations of this investigation.

Summary:

Based on this Level III validation, these data are usable, as qualified, for their intended purpose. None of these data were rejected.



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
		Date Received: 08/02/10
	Client Contact: Ian Sutherland	Date Reported: 08/10/10
	Client P.O.:	Date Completed: 08/10/10

WorkOrder: 1008030

August 10, 2010

Dear Ian:

Enclosed within are:

- 1) The results of the 5 analyzed samples from your project: #SCS370; Ed's Liquor, Oakland, CA,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1008030

McCAMPBELL ANALYTICAL INC. 1534 Willow Pass Road Pittsburg, CA 94565-1701 www.main@mccampbell.com Telephone: (925) 252-9262 Fax: (925) 252-9269					CHAIN OF CUSTODY RECORD TURN AROUND TIME <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																																																																																																																							
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Company: _____ E-Mail: <u>ian@schutze-inc.com</u>					Lab Use Only																																																																																																																							
Tele: <u>(510) 434-1333</u> Fax: <u>(510) 434-1441</u> Project #: <u>SCS370</u> Project Name: <u>Ed's Liquor</u> Project Location: <u>Oakland, CA</u> Sampler Signature: <u>[Signature]</u>					Pressurized By		Date		Pressurization Gas																																																																																																																			
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Relinquished By: <u>[Signature]</u>		Date: <u>8/2/10</u>	Time: <u>8:25</u>	Received By: <u>[Signature]</u>		Temp (°C): _____ Work Order #: _____																																																																																																																						
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McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1008030

ClientCode: SCO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 5 days
Ian Sutherland	Email: js@schutze-inc.com, ian@schutze-inc.co	Accounts Payable	
Schutze & Associates	cc:	Schutze Consulting	Date Received: 08/02/2010
2100 Embarcadero, Suite #100	PO:	2100 Embarcadero, Suite #100	Date Printed: 08/02/2010
Oakland, CA 94606	ProjectNo: #SCS370; Ed's Liquor, Oakland, CA	Oakland, CA 94606	
(510) 434-1333 FAX (510) 625-8176		priscillajazz@yahoo.com	

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1008030-001	SV-1	Soil Vapor	7/29/2010 8:25	<input type="checkbox"/>	A												
1008030-002	SV-2	Soil Vapor	7/29/2010 8:52	<input type="checkbox"/>	A												
1008030-003	SV-3	Soil Vapor	7/29/2010 9:14	<input type="checkbox"/>	A												
1008030-004	SV-4	Soil Vapor	7/29/2010 15:19	<input type="checkbox"/>	A												
1008030-005	ELA	Soil Vapor	7/29/2010 15:30	<input type="checkbox"/>	A												

Test Legend:

1	TO15_SOIL(UG/M3)	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Schutze & Associates**

Date and Time Received: **8/2/2010 7:55:15 PM**

Project Name: **#SCS370; Ed's Liquor, Oakland, CA**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1008030** Matrix Soil Vapor

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/09/10
		Date Analyzed: 08/09/10

Volatile Organics by P&T and GC/MS in µg/m³ (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1008030

Lab ID	1008030-002A			Initial Pressure (psia)	12.4		
Client ID	SV-2			Final Pressure (psia)	24.7		
Matrix	Soil Vapor						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10000	tert-Amyl methyl ether (TAME)	ND	1.0	500
Benzene	ND	1.0	500	Bromobenzene	ND	1.0	500
Bromochloromethane	ND	1.0	0.25	Bromodichloromethane	ND	1.0	500
Bromoform	ND	1.0	500	Bromomethane	ND	1.0	500
2-Butanone (MEK)	ND	1.0	2000	t-Butyl alcohol (TBA)	ND	1.0	5000
n-Butyl benzene	ND	1.0	500	sec-Butyl benzene	1100	1.0	500
tert-Butyl benzene	ND	1.0	500	Carbon Disulfide	ND	1.0	500
Carbon Tetrachloride	ND	1.0	500	Chlorobenzene	ND	1.0	500
Chloroethane	ND	1.0	500	Chloroform	ND	1.0	500
Chloromethane	ND	1.0	500	2-Chlorotoluene	ND	1.0	500
4-Chlorotoluene	ND	1.0	500	Dibromochloromethane	ND	1.0	500
1,2-Dibromo-3-chloropropane	ND	1.0	500	1,2-Dibromoethane (EDB)	ND	1.0	500
Dibromomethane	ND	1.0	500	1,2-Dichlorobenzene	ND	1.0	500
1,3-Dichlorobenzene	ND	1.0	500	1,4-Dichlorobenzene	ND	1.0	500
Dichlorodifluoromethane	ND	1.0	500	1,1-Dichloroethane	ND	1.0	500
1,2-Dichloroethane (1,2-DCA)	ND	1.0	500	1,1-Dichloroethene	ND	1.0	500
cis-1,2-Dichloroethene	ND	1.0	500	trans-1,2-Dichloroethene	ND	1.0	500
1,2-Dichloropropane	ND	1.0	500	1,3-Dichloropropane	ND	1.0	500
2,2-Dichloropropane	ND	1.0	500	1,1-Dichloropropene	ND	1.0	500
cis-1,3-Dichloropropene	ND	1.0	500	trans-1,3-Dichloropropene	ND	1.0	500
Diisopropyl ether (DIPE)	ND	1.0	500	Ethanol	ND	1.0	50000
Ethylbenzene	8100	1.0	500	Ethyl tert-butyl ether (ETBE)	ND	1.0	500
Freon 113	ND	1.0	10000	Hexachlorobutadiene	ND	1.0	500
Hexachloroethane	ND	1.0	500	2-Hexanone	ND	1.0	500
Isopropylbenzene	3400	1.0	500	4-Isopropyl toluene	ND	1.0	500
Methyl-t-butyl ether (MTBE)	ND	1.0	500	Methylene chloride	ND	1.0	500
4-Methyl-2-pentanone (MIBK)	ND	1.0	500	Naphthalene	850	1.0	500
n-Propyl benzene	4500	1.0	500	Styrene	ND	1.0	500
1,1,1,2-Tetrachloroethane	ND	1.0	500	1,1,2,2-Tetrachloroethane	ND	1.0	500
Tetrachloroethene	ND	1.0	500	Toluene	3100	1.0	500
1,2,3-Trichlorobenzene	ND	1.0	500	1,2,4-Trichlorobenzene	ND	1.0	500
1,1,1-Trichloroethane	ND	1.0	500	1,1,2-Trichloroethane	ND	1.0	500
Trichloroethene	ND	1.0	500	Trichlorofluoromethane	ND	1.0	500
1,2,3-Trichloropropane	ND	1.0	500	1,2,4-Trimethylbenzene	1100	1.0	500
1,3,5-Trimethylbenzene	910	1.0	500	Vinyl Chloride	ND	1.0	500
Xvlens	28.000	1.0	500				

Surrogate Recoveries (%)

%SS1:	118	%SS2:	87
%SS3:	97		

Comments:

*soil vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection 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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/04/10
		Date Analyzed: 08/04/10

Leak Check Compound*

Extraction method: TO15

Analytical methods: TO15

Work Order: 1008030

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
001A	SV-1	Soil Vapor	11.94	23.82	ND	1	N/A	
003A	SV-3	Soil Vapor	12.86	25.62	ND	1	N/A	
004A	SV-4	Soil Vapor	12.26	24.42	ND	1	N/A	
005A	ELA	Soil Vapor	12.86	25.66	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	psia	psia	10	µg/L
	S	psia	psia	NA	NA

* leak check compound is reported in µg/L.

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

The IPA reference is:

DTSC, Advisory-Active Soil Gas Investigations, January 28, 2003, page 10, section 2.4.2:

"Tracer compounds, such as ...isopropanol..., may be used as leak check compounds, if a detection limit of 10 µg/L or less can be achieved." This implies that 10 µg/L is the cut off definition for a leak, which equals 10,000 µg/m³.

The other low IPA hits may be due to extremely small leaks or may be naturally occurring in soil gas, particularly at biologically active sites.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/04/10
		Date Analyzed: 08/04/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1008030

Lab ID	1008030-001A	Initial Pressure (psia)	11.9
Client ID	SV-1	Final Pressure (psia)	23.8
Matrix	Soil Vapor		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	220	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	44	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	140	1.0	96	Ethyl acetate	8.6	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	28	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	ND	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	ND	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	250	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrachloroethene	18	1.0	14	Tetrahydrofuran	ND	1.0	6.0
Toluene	270	1.0	7.7	1,2,4-Trichlorobenzene	ND	1.0	15
1,1,1-Trichloroethane	ND	1.0	11	1,1,2-Trichloroethane	ND	1.0	11
Trichloroethene	ND	1.0	11	Trichlorofluoromethane	ND	1.0	11
1,2,4-Trimethylbenzene	ND	1.0	10	1,3,5-Trimethylbenzene	ND	1.0	10
Vinyl Acetate	ND	1.0	180	Vinyl Chloride	ND	1.0	5.2
Xylenes	100	1.0	27				

Surrogate Recoveries (%)

%SS1:	99	%SS2:	104
%SS3:	99		

Comments:

*vapor samples are reported in µg/m³.

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

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/04/10
		Date Analyzed: 08/04/10

Volatile Organic Compounds in µg/m³**

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1008030

Lab ID	1008030-003A	Initial Pressure (psia)	12.9
Client ID	SV-3	Final Pressure (psia)	25.6
Matrix	Soil Vapor		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	140	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	50	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	86	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	360	1.0	96	Ethyl acetate	ND	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	25	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	ND	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	ND	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	310	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrachloroethene	ND	1.0	14	Tetrahydrofuran	ND	1.0	6.0
Toluene	220	1.0	7.7	1,2,4-Trichlorobenzene	ND	1.0	15
1,1,1-Trichloroethane	ND	1.0	11	1,1,2-Trichloroethane	ND	1.0	11
Trichloroethene	ND	1.0	11	Trichlorofluoromethane	ND	1.0	11
1,2,4-Trimethylbenzene	21	1.0	10	1,3,5-Trimethylbenzene	ND	1.0	10
Vinyl Acetate	ND	1.0	180	Vinyl Chloride	ND	1.0	5.2
Xylenes	69	1.0	27				

Surrogate Recoveries (%)

%SS1:	95	%SS2:	105
%SS3:	100		

Comments:

*vapor samples are reported in µg/m³.

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

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/03/10-08/04/10
		Date Analyzed: 08/03/10-08/04/10

Volatile Organic Compounds in µg/m³**

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1008030

Lab ID	1008030-004A	Initial Pressure (psia)	12.3
Client ID	SV-4	Final Pressure (psia)	24.4
Matrix	Soil Vapor		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	380	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	17	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	1300	10	96	Ethyl acetate	ND	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	ND	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	ND	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	11	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrachloroethene	ND	1.0	14	Tetrahydrofuran	ND	1.0	6.0
Toluene	120	1.0	7.7	1,2,4-Trichlorobenzene	ND	1.0	15
1,1,1-Trichloroethane	ND	1.0	11	1,1,2-Trichloroethane	ND	1.0	11
Trichloroethene	ND	1.0	11	Trichlorofluoromethane	ND	1.0	11
1,2,4-Trimethylbenzene	12	1.0	10	1,3,5-Trimethylbenzene	ND	1.0	10
Vinyl Acetate	ND	1.0	180	Vinyl Chloride	ND	1.0	5.2
Xylenes	ND	1.0	27				

Surrogate Recoveries (%)

%SS1:	93	%SS2:	105
%SS3:	97		

Comments:

*vapor samples are reported in µg/m³.

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

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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Schutze & Associates 2100 Embarcadero, Suite #100 Oakland, CA 94606	Client Project ID: #SCS370; Ed's Liquor, Oakland, CA	Date Sampled: 07/29/10
	Client Contact: Ian Sutherland	Date Received: 08/02/10
	Client P.O.:	Date Extracted: 08/04/10
		Date Analyzed: 08/04/10

Volatile Organic Compounds in µg/m³**

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1008030

Lab ID	1008030-005A	Initial Pressure (psia)	12.9
Client ID	ELA	Final Pressure (psia)	25.7
Matrix	Soil Vapor		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	ND	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	ND	1.0	96	Ethyl acetate	ND	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	ND	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	ND	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	ND	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrachloroethene	ND	1.0	14	Tetrahydrofuran	ND	1.0	6.0
Toluene	ND	1.0	7.7	1,2,4-Trichlorobenzene	ND	1.0	15
1,1,1-Trichloroethane	ND	1.0	11	1,1,2-Trichloroethane	ND	1.0	11
Trichloroethene	ND	1.0	11	Trichlorofluoromethane	ND	1.0	11
1,2,4-Trimethylbenzene	ND	1.0	10	1,3,5-Trimethylbenzene	ND	1.0	10
Vinyl Acetate	ND	1.0	180	Vinyl Chloride	ND	1.0	5.2
Xylenes	ND	1.0	27				

Surrogate Recoveries (%)

%SS1:	92	%SS2:	106
%SS3:	99		

Comments:

*vapor samples are reported in µg/m³.

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

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soil Vapor

QC Matrix: Soil Vapor

BatchID: 52168

WorkOrder 1008030

EPA Method TO15	Extraction TO15								Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acrylonitrile	N/A	25	N/A	N/A	N/A	93.3	87.6	6.30	N/A	N/A	70 - 130	30
tert-Amyl methyl ether (TAME)	N/A	25	N/A	N/A	N/A	104	96.2	8.04	N/A	N/A	70 - 130	30
Benzene	N/A	25	N/A	N/A	N/A	101	91.4	10.3	N/A	N/A	70 - 130	30
Benzyl chloride	N/A	25	N/A	N/A	N/A	106	97.3	8.67	N/A	N/A	70 - 130	30
Bromodichloromethane	N/A	25	N/A	N/A	N/A	126	117	7.28	N/A	N/A	70 - 130	30
Bromoform	N/A	25	N/A	N/A	N/A	103	95.2	7.76	N/A	N/A	70 - 130	30
t-Butyl alcohol (TBA)	N/A	25	N/A	N/A	N/A	89.3	81.7	8.84	N/A	N/A	70 - 130	30
Carbon Disulfide	N/A	25	N/A	N/A	N/A	104	95.4	8.83	N/A	N/A	70 - 130	30
Carbon Tetrachloride	N/A	25	N/A	N/A	N/A	124	111	11.1	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	25	N/A	N/A	N/A	110	101	9.01	N/A	N/A	70 - 130	30
Chloroethane	N/A	25	N/A	N/A	N/A	102	90.9	11.1	N/A	N/A	70 - 130	30
Chloroform	N/A	25	N/A	N/A	N/A	102	92.9	9.54	N/A	N/A	70 - 130	30
Chloromethane	N/A	25	N/A	N/A	N/A	83.8	86.5	3.19	N/A	N/A	70 - 130	30
Dibromochloromethane	N/A	25	N/A	N/A	N/A	96.1	88.8	7.92	N/A	N/A	70 - 130	30
1,2-Dibromo-3-chloropropane	N/A	25	N/A	N/A	N/A	88.9	82.3	7.71	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	124	114	8.47	N/A	N/A	70 - 130	30
1,3-Dichlorobenzene	N/A	25	N/A	N/A	N/A	124	114	8.78	N/A	N/A	70 - 130	30
1,4-Dichlorobenzene	N/A	25	N/A	N/A	N/A	116	106	9.06	N/A	N/A	70 - 130	30
Dichlorodifluoromethane	N/A	25	N/A	N/A	N/A	90.2	80.7	11.1	N/A	N/A	70 - 130	30
1,1-Dichloroethane	N/A	25	N/A	N/A	N/A	101	91.8	9.31	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	98	90.1	8.45	N/A	N/A	70 - 130	30
cis-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	104	95.8	8.33	N/A	N/A	70 - 130	30
trans-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	104	96.7	7.74	N/A	N/A	70 - 130	30
1,2-Dichloropropane	N/A	25	N/A	N/A	N/A	104	95.5	8.07	N/A	N/A	70 - 130	30
cis-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	102	94.7	7.90	N/A	N/A	70 - 130	30
trans-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	102	94.7	7.77	N/A	N/A	70 - 130	30
1,2-Dichloro-1,1,2,2-tetrafluoroetha	N/A	25	N/A	N/A	N/A	84.7	79.6	6.19	N/A	N/A	70 - 130	30
Diisopropyl ether (DIPE)	N/A	25	N/A	N/A	N/A	89.7	82.1	8.80	N/A	N/A	70 - 130	30
1,4-Dioxane	N/A	25	N/A	N/A	N/A	112	100	11.3	N/A	N/A	70 - 130	30
Ethyl acetate	N/A	25	N/A	N/A	N/A	110	102	7.88	N/A	N/A	70 - 130	30
Ethyl tert-butyl ether (ETBE)	N/A	25	N/A	N/A	N/A	89.1	81.5	8.93	N/A	N/A	70 - 130	30

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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 content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soil Vapor

QC Matrix: Soil Vapor

BatchID: 52168

WorkOrder 1008030

EPA Method TO15 Analyte	Extraction TO15								Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Ethylbenzene	N/A	25	N/A	N/A	N/A	116	108	7.80	N/A	N/A	70 - 130	30
Freon 113	N/A	25	N/A	N/A	N/A	98.4	90.2	8.70	N/A	N/A	70 - 130	30
Hexachlorobutadiene	N/A	25	N/A	N/A	N/A	94.5	90.2	4.65	N/A	N/A	70 - 130	30
4-Methyl-2-pentanone (MIBK)	N/A	25	N/A	N/A	N/A	121	111	8.47	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	103	94.1	8.69	N/A	N/A	70 - 130	30
Methylene chloride	N/A	25	N/A	N/A	N/A	103	94.9	8.27	N/A	N/A	70 - 130	30
Naphthalene	N/A	25	N/A	N/A	N/A	82.2	77.4	5.93	N/A	N/A	70 - 130	30
Styrene	N/A	25	N/A	N/A	N/A	99.8	92	8.10	N/A	N/A	70 - 130	30
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	99.4	91.2	8.66	N/A	N/A	70 - 130	30
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	118	108	8.58	N/A	N/A	70 - 130	30
Tetrachloroethene	N/A	25	N/A	N/A	N/A	108	99	8.83	N/A	N/A	70 - 130	30
Tetrahydrofuran	N/A	25	N/A	N/A	N/A	105	96.9	8.00	N/A	N/A	70 - 130	30
Toluene	N/A	25	N/A	N/A	N/A	114	105	8.85	N/A	N/A	70 - 130	30
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	100	93.5	7.05	N/A	N/A	70 - 130	30
1,1,1-Trichloroethane	N/A	25	N/A	N/A	N/A	103	93.5	9.73	N/A	N/A	70 - 130	30
1,1,2-Trichloroethane	N/A	25	N/A	N/A	N/A	118	109	8.20	N/A	N/A	70 - 130	30
Trichloroethene	N/A	25	N/A	N/A	N/A	109	101	7.78	N/A	N/A	70 - 130	30
1,2,4-Trimethylbenzene	N/A	25	N/A	N/A	N/A	119	109	8.62	N/A	N/A	70 - 130	30
1,3,5-Trimethylbenzene	N/A	25	N/A	N/A	N/A	101	96.5	4.99	N/A	N/A	70 - 130	30
Vinyl Chloride	N/A	25	N/A	N/A	N/A	81.9	103	22.8	N/A	N/A	70 - 130	30
Xylenes	N/A	75	N/A	N/A	N/A	117	107	8.35	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	87	80	8.96	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	99	91	8.65	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	100	92	8.57	N/A	N/A	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

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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 content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soil Vapor

QC Matrix: Soil Vapor

BatchID: 52168

WorkOrder 1008030

EPA Method TO15		Extraction TO15							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/m³	µg/m³	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD

BATCH 52168 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1008030-001A	07/29/10 8:25 AM	08/04/10	08/04/10 1:01 PM	1008030-003A	07/29/10 9:14 AM	08/04/10	08/04/10 1:48 PM
1008030-004A	07/29/10 3:19 PM	08/03/10	08/03/10 10:54 PM	1008030-004A	07/29/10 3:19 PM	08/04/10	08/04/10 2:50 PM
1008030-005A	07/29/10 3:30 PM	08/04/10	08/04/10 3:43 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

APPENDIX B

BORING LOGS

SOIL BORING LOG

Driller/Rig: ECA/GeoProbe 6600

Date Drilled: 7/29/2010

Logged by:

Diameter: 2' continuous core

Boring Number: B1

IS

Sample Type	Sample Identification	Groundwater	Depth (ft bgs)	Highest PID per 5-ft interval/Odor	USCS Symbol	Lithology Symbol	Subsurface Description	
	B1-4'	Low permeability, potentiometric surface not investigated	5	0.3	SM		Asphalt.	
	B1-8'			0.5	CL		Yellowish-red, sand-silt mixture, dry to slightly moist.	
	B1-12'			1,548	10	CL		Dark-brown, silty-clay, slightly moist, quickly transitions to yellowish-brown.
	B1-14'							Black, silty-clay, slightly moist, strong hydrocarbon odor, turns greenish-gray at approximately 8 ft bgs.
	B1-16'								Approximately 4-inch, greenish-gray, saturated silty-sand lense.
	B1-18'			13.0	20	CL		Transitions back to yellowish-brown at approximately 18 ft bgs.
	B1-20'							Boring terminated @ 20 ft bgs.
			25					
			30					
			35					
			40					
			45					
			50					

GeoProbe Boring Logs
Ed's Liquor
2700 23rd Avenue
Oakland, California

Notes: 2 ft drives from 12 ft bgs due to "tight" clays;
Groundwater encountered at approximately 15 ft bgs (entered boring slowly, set temp PVC well);
Backfilled with portland neat cement grout;
Highest PID reading: 1,548 ppm;
Visual contamination from approximately 6 -18 ft bgs.

groundwater sample

potentiometric surface (ft bgs)

soil sample

ft bgs = feet below ground surface

SOIL BORING LOG

Driller/Rig: ECA/GeoProbe 6600

Date Drilled: 7/29/2010

Logged by:

Diameter: 2' continuous core

Boring Number: B2

IS

Sample Type	Sample Identification	Groundwater	Depth (ft bgs)	Highest PID per 5-ft interval/Odor	USCS Symbol	Lithology Symbol	Subsurface Description
					SM		Asphalt.
	B2-4'		5	0.3	CL		Yellowish-red, sand-silt mixture, dry to slightly moist.
	B2-8'		10	0.3			Dark-brown, silty-clay, slightly moist, quickly transitions to yellowish-brown.
	B2-10'						
	B2-12'						
	B2-14'						
	B2-16'						
	B2-18'						
	B2-20'		20				
			25				Boring terminated @ 20 ft bgs.
			30				
			35				
			40				
			45				
			50				

GeoProbe Boring Logs
Ed's Liquor
2700 23rd Avenue
Oakland, California

Notes: 2 ft drives from 8 ft bgs due to "tight" clays;
Groundwater not encountered;
Backfilled with portland neat cement grout;
Highest PID reading: 0.3 ppm;
No odors/signs of contamination;
Silty-sand lense not observed.

SOIL BORING LOG

Driller/Rig: ECA/GeoProbe 6600

Date Drilled: 7/29/2010

Logged by: IS

Diameter: 2' continuous core

Boring Number: B3

Sample Type	Sample Identification	Groundwater	Depth (ft bgs)	Highest PID per 5-ft interval/Odor	USCS Symbol	Lithology Symbol	Subsurface Description
					SM		Asphalt.
	B3-4'		5	0.3	CL		Yellowish-red, sand-silt mixture, dry to slightly moist.
	B3-7'			0.4			Dark-brown, silty-clay, slightly moist, quickly transitions to yellowish-brown.
	B3-10'		10				
	B3-12'	Low permeability, potentiometric surface not investigated		0.3			Approximately 4-inch, brown, saturated silty-sand lens.
	B3-14'		15				
	B3-16'			0.3			
	B3-18'			0.3			
	B3-20'		20	0.1			
	B3-22'						Boring terminated @ 22 ft bgs.
			25				
			30				
			35				
			40				
			45				
			50				

GeoProbe Boring Logs
Ed's Liquor
2700 23rd Avenue
Oakland, California

Notes: 2 ft drives from 10 ft bgs due to "tight" clays;
Groundwater encountered at approximately 13.5 ft bgs (entered boring slowly, set temp PVC well);
Backfilled with portland neat cement grout;
Highest PID reading: 0.4 ppm;
No odors or visible contamination observed.

groundwater sample

potentiometric surface (ft bgs)

soil sample

ft bgs = feet below ground surface

SOIL BORING LOG

Driller/Rig: ECA/GeoProbe 6600

Date Drilled: 7/29/2010

Logged by:

Diameter: 2' continuous core

Boring Number: B4

IS

Sample Type	Sample Identification	Groundwater	Depth (ft bgs)	Highest PID per 5-ft interval/Odor	USCS Symbol	Lithology Symbol	Subsurface Description
					SM		Asphalt.
	B4-4'		5	1.1	CL		Yellowish-red, sand-silt mixture, dry to slightly moist.
	B4-7'			0.9			Dark-brown, silty-clay, slightly moist, quickly transitions to yellowish-brown.
	B4-10'		10				
	B4-12'			0.7			
	B4-14'		15				
	B4-16'			0.7			
	B4-18'		20				
	B4-20'						
			25				Boring terminated @ 20 ft bgs.
			30				
			35				
			40				
			45				
			50				

GeoProbe Boring Logs
Ed's Liquor
2700 23rd Avenue
Oakland, California

Notes: 2 ft drives from 10 ft bgs due to "tight" clays;
Groundwater not encountered;
Backfilled with portland neat cement grout;
Highest PID reading: 1.1 ppm;
No odors/signs of contamination;
Silty-sand lense not observed.

APPENDIX C

WELL PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 07/28/2010 By jamesy

Permit Numbers: W2010-0577
Permits Valid from 07/29/2010 to 07/29/2010

Application Id: 1280269755100
Site Location: 2700 23rd Ave, Oakland, CA 94601
Project Start Date: 07/29/2010
Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

City of Project Site:Oakland

Completion Date:07/29/2010

Applicant: Schutze & Associates - Ian Sutherland
2100 Embarcadero E, Ste 100, Oakland, CA 94606

Phone: 510-434-1333

Property Owner: Pedro Pulido
2700 23rd Ave, Oakland, CA 94601

Phone: 510-436-6331

Client: Alan Lozito, Summit Bank
2000 Powell St., Emeryville, CA 94608

Phone: 510-839-8800

Receipt Number: WR2010-0266 Total Due: \$265.00
Payer Name : Schutze and Associates Total Amount Paid: \$265.00
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 8 Boreholes
Driller: ECA Inc. - Lic #: 57 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2010-0577	07/28/2010	10/27/2010	8	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits

Alameda County Public Works Agency - Water Resources Well Permit

required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
