

May 11, 2007  
Project No. SCS225

**Mr. Ray Moreno**  
5107 Indian Island Road  
Weed, CA 96094  
(530) 938-2777

**Reference:**       **Vacant Restaurant Building**  
                          **5239 Telegraph Avenue**  
                          **Oakland, California**

**Subject:**         **Report for**

- **Government List Search**
- **Soil and Groundwater Investigation**
- **Soil Vapor Survey**
- **Indoor Air Survey**

Dear Mr. Moreno,

SCHUTZE & Associates, Inc. is pleased to submit this Report to Mr. Ray Moreno. The purpose of the completed work was to investigate potential environmental contamination at the subject site originating from nearby leaking underground storage tank (LUST) sites.

The subject site has an area of approximately 5,170 square feet and is located on the west side of Telegraph Avenue, just north of the intersection of Claremont and Telegraph Avenues with 52<sup>nd</sup> Street, within the city limits of Oakland, Alameda County, California. The subject site consists of Assessor's Parcel Number 14-1219-2. The parcel is developed with a vacant restaurant building, a concrete and asphalt paved driveway, a patio area and a fenced backyard area.

## **A. BACKGROUND**

Based on a previously completed Phase I Environmental Site Assessment<sup>1</sup> for the subject site, the property has been occupied by a restaurant since the early 1950s. Prior to that the property was occupied by a residence.

Review of the Phase I ESA indicates that two gasoline service stations in the vicinity of the subject site may have caused fuel or solvent contamination to the soil and/or

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<sup>1</sup> February 2007, Phase I Environmental Site Assessment (ESA), ERAS Environmental, Inc

groundwater beneath the subject site and surrounding areas. The author of the previous Phase I ESA recommended groundwater and soil vapor testing at the subject site. The nearby facilities of concern were as follows:

<b>Area</b>	<b>Environmental Concern</b>	<b>Recommended Action</b>
AutoPro (now ProCare) 5200 Telegraph	TPH Soil and GW Contamination by LUST	Subsurface investigation
Chevron Service Station 5101 Telegraph	Listed as LUST site	Subsurface investigation

## **B. GEOLOGY AND HYDROLOGY**

The subject site is located within the Coast Ranges geomorphic province, which is characterized by a series of parallel, northwesterly trending, folded and faulted mountain chains and valleys. The Peninsular and East Bay Ranges are separated by a depression containing the San Francisco Bay. The Peninsular Range on the southwest side of the Bay is formed mainly by Franciscan Formation rock series, consisting of Jurassic Franciscan mélanges and serpentinites. The East Bay Ranges (or Oakland Hills) form the northeastern boundary of the Bay and consist of Late Mesozoic shelf and slope sedimentary rocks.

The subject site is located in the East Bay Plain, a relatively flat area which, prior to urban development, consisted of alluvial plains and talus slope deposit derived from the Oakland Hills. The area of the subject site is underlain by deposits belonging to the Temescal Formation. This formation varies in thickness between 5 feet and 60 feet, consisting of clay gravel and sandy, silty clays (USGS,1957). Groundwater was reported at depths between 10 to 13 feet below ground surface (ft bgs). The groundwater flow direction was generally to the south-southwest. Based on the experience of SCHUTZE & Associates, Inc. with properties in this vicinity, groundwater levels fluctuate significantly because of preferential flow or channeling in prehistoric, buried channels.

## **C. AGENCY FILE REVIEW**

SCHUTZE & Associates, Inc. visited the offices of Alameda County Environmental Health Department (ACEHD) on April 23, 2007. Agency files for the following properties were reviewed:

- 5101 Telegraph Avenue, Former Chevron Station, and
- 5200 Telegraph Avenue, Former AutoPro facility.

**5101 Telegraph Avenue:** This facility was a former Chevron gasoline service station. Two 10,000-, one 5,000- and one 1,000-gallon underground storage tanks (USTs) were installed in approximately 1970 and removed in 1991. Contamination was discovered at the time of the tank removal. Groundwater monitoring started in 1991 and was continued until 2005. Concentrations of total petroleum hydrocarbons as gasoline (TPH-g) in groundwater were as high as 35,000 micrograms per liter ( $\mu\text{g/L}$ ). Benzene was detected at concentrations of up to 390  $\mu\text{g/L}$ . Apparently, the case is still open, and Chevron Oil applied to be accepted and reimbursed for the remediation costs by the California Tank Clean-Up Fund in May 2005.

According to the boring logs, the subsurface deposits consist of clayey sand and silt. Groundwater was measured at depths of 12 to 15 ft bgs, and the groundwater flow direction was to the southwest.

Based on the down-gradient location of this site and distance from the subject site (approximately 300 ft), there is a low potential that this site has environmentally impacted the subject site.

**5200 Telegraph Avenue:** At the former AutoPro facility, five USTs were removed in 1990. It was discovered that groundwater contamination had occurred and monitoring wells were installed in 1990. The depth to groundwater in these wells was measured to be at 10 to 13 ft bgs, and the groundwater flow direction was in a south-southwesterly direction. TPH-g concentrations of up to 33,000  $\mu\text{g/L}$  were reported. Benzene concentrations were reported at concentrations of up to 120  $\mu\text{g/L}$ . Monitoring well MW-5 was closest to the subject site and was installed on Telegraph Avenue between the AutoPro site and the subject site. In 2002, the TPH-g concentrations levels in MW-5 were 9,000  $\mu\text{g/L}$ . The concentrations seemed to be increasing over time, indicating that contamination from this facility was migrating toward the subject site.

In 1996, a groundwater transport-modeling project was performed by Chevron (Weiss, 1992), and two borings were installed on the west side of Telegraph Avenue in the vicinity of the subject site. Based on the laboratory results of soil and groundwater samples for these borings, the TPH-d, -g and Benzene concentrations were below the laboratory detection levels (ND). Therefore, it was concluded that the contamination was not traveling across Telegraph Avenue to the subject site.

Based on the government letters reviewed during the file review, the owner of the AutoPro facility is Tri-Star Partnership, located at 2980 Thomas Grade, Morgan Hill, CA 95037 (Phone: (408) 782-1732). In a letter by the owner to the agency, dated February 23, 2007, the environmental work at the AutoPro facility had been stopped because there was no longer a responsible Alameda County Case Worker available for the review of work at this facility. The owner stated that they would continue the environmental work as soon as they were assigned a new caseworker.

## **D. PHASE II SOIL AND GROUNDWATER INVESTIGATION**

### **D.1 Pre-Field Activities**

SCHUTZE & Associates, Inc. visited the subject site on April 6, 2007 and marked the proposed boring locations with white spray paint. Subsequently, Underground Services Alert (USA) was contacted to mark underground utilities. All borings were cleared for utilities. A health and safety meeting was held in the morning before fieldwork commenced.

SCHUTZE & Associates, Inc. submitted a permit application to the ACEHD and paid the associated fees. The permit for the borings was issued on April 6, 2007 (Permit No.:W2007-0511), Appendix B. The agency was informed of the drilling dates and the site location. No agency representatives inspected the work in progress.

### **D.2 D1. Soil and Groundwater Sampling Methodology**

Drilling was performed on April 10, 2007, with Geoprobe direct-push equipment mounted on a  $\frac{3}{4}$ -ton truck.

Groundwater samples were collected with a small-diameter plastic bailer and placed in 40-ml volatile organics analysis (VOA) vials for VOC analyses, one-liter amber bottles for TPH analyses. The sample containers were placed in coolers, kept on ice and then transported and delivered to McCampbell Analytical, a California Department of Health Services (DHS) certified laboratory located in Pittsburgh, California.

For the collection of soil samples, the driller used a Geoprobe Macro-core sampler. This soil core was recovered in five-foot acetate liner sections with a diameter of 1.5-inch. Sections of the core were sampled by cutting the acetate liner and capping the ends with Teflon septa and plastic caps.

Soil samples were collected at 5 and 10 ft bgs. Soil contamination (above groundwater level) was not observed. Samples of the soil cores were placed in plastic bags and tested for VOC vapors using a handheld Photo-Ionization Detector (PID). Based on the PID readings, no soil contamination was detected above groundwater level. The soil cores were logged by the field geologist. The field notes and boring logs are available from SCHUTZE & Associates, Inc. upon request. Because there was no evidence of soil contamination, no soil samples were submitted for laboratory analyses.

The borings were back-filled in accordance with the requirements of the local agencies.

### **D.3 Groundwater Laboratory Methodology**

Three groundwater samples were sent to McCampbell Analytical and analyzed as follows:

- Three groundwater samples were analyzed for TPH-g and MBTEX using EPA Method 8021/8015.
- One groundwater sample was analyzed for TPH-Diesel and Motor Oil by U.S. EPA Method 8015M.

#### D.4 Groundwater Survey Analytical Results

The results of the groundwater analyses were as follows:

**Table 1**  
**Groundwater Analytical Results**  
**(Reported in micrograms per liter (µg/L))**

Sample	TPH-g	MTBE	B	T	E	X
SB-1	<50	<5.0	<0.5	<0.5	<0.5	<0.5
SB-2	17,000	<50	<5.0	27	15	<5.0
SB-3	12,000	<50	<5.0	11	14	<5.0
ESLs	100	500	1.0	40	30	20

TPH-g = Total petroleum hydrocarbon as gasoline.

MBTEX = Methyl tert butyl ether, benzene, toluene, ethylbenzene and xylenes.

NA = Not analyzed, <50 = Not detected at laboratory detection limit of 50 µg/L.

ESL = Environmental Screening Level as set forth by the RWQCB, Feb. 2005, Table 1A.

The laboratory reported that the hydrocarbons detected in the samples were in the gasoline (TPH-g) range. TPH-g was detected in Borings SB-2 and SB-3 at concentrations of 17,000 and 12,000 µg/L, respectively. MTBE, benzene and xylenes were not detected. Toluene and ethylbenzene were detected in SB-2 and SB-3 at low concentrations. TPH and MBTEX were not detected in SB-3. The TPH-g concentrations in SB-2 and SB-3 exceeded the Final Groundwater Screening Level of the Regional Water Quality Control Board (RWQCB) of 100 µg/L.

Based on the laboratory results, a plume of TPH-g in groundwater exists beneath the eastern portion of the subject site. The plume has not migrated to the central or western portion of the subject site as indicated by the “non-detect” concentrations in SB-1.

Based on environmental investigations performed by others on the 5200 Telegraph Avenue LUST site (AutoPro), the plume of TPH-g contamination in groundwater originating from this site had migrated in southwesterly direction and, the consultant concluded, that the subject site (5239 Telegraph Avenue) had not been affected by the plume.

Based on the results of this subsurface investigation, it appears that either the contamination from the AutoPro site has traveled to the subject site, in a migration pathway such as an utility trench not tested by the consultants of AutoPro, or there was another unreported fuel leak or spill on Telegraph Avenue. There was no indication that

historical or recent activities on the restaurant property have caused or contributed to this contamination.

Impacted ground water encountered during construction could affect development schedules and construction cost. However, it is not uncommon for petroleum impacted soil and water to be managed during construction and can be considered as a part of construction cost.

## **E. SOIL VAPOR SURVEY**

### **E.1 Soil Vapor Sampling Methodology**

For the soil vapor survey, SCHUTZE & Associates, Inc. subcontracted a licensed drilling contractor. Using a Geoprobe drill rig, a two-inch diameter vapor probe was driven to depths of approximately 5 ft bgs. This depth was chosen because some fill material encountered at shallower depths would have prevented a complete seal of the probe from ambient air. A porous tip was attached to a rigid tube, which was then inserted into the boring. Coarse sand was poured into the boring to surround the porous tip with a porous media. Subsequently, bentonite clay was placed into the boring and water was poured over it to seal the drill hole. The tube, which was rising from the boring, was connected inline first to a perch canister and then to a sample canister.

Torrent Laboratories supplied 6-liter canisters for the collection of the soil vapor samples. The internal surfaces of these stainless steel canisters were passivated using the Summa Process and are, therefore, referred to as Summa canisters. SCHUTZE & Associates, Inc. used five-micron particulate filters to prevent particulate matter from entering the canisters and to increase canister fill times. A vacuum gauge was used to measure the initial vacuum of the canister before sampling and the final vacuum upon completion. The gauges used had ranges from zero to 30 inches of mercury (in Hg).

The samples collected were vapor grab samples, which are samples collected over a short type period (20 to 60 minutes). The canisters vacuums and flow-control valves were used to draw the sample, which is referred to as passive sampling (instead of using pumps). After confirming the initial pressure of -30 in Hg, the canister was left open until the pressure had increased to approximately -5 in Hg. The filled canisters were sealed with a brass caps, placed into the original shipping containers and shipped to Torrent Laboratories, using chain-of-custody procedures.

### **E.2 Soil Vapor Laboratory Methodology**

SCHUTZE & Associates, Inc. requested TO-14 and TO-15 analyses from the laboratory. TO-14 and TO-15 are the US EPA methods used to analyze air or vapor matrix samples for TPH-g and VOCs, respectively. The methods use a gas chromatograph with a mass spectrometer detector, analogous to the US EPA Method 8260B used in this project for soil and groundwater.

### E.3 Soil Vapor Analytical Results

**Table 2**  
**Soil Vapor Analytical Results**  
**(Reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ))**

Sample	TPH-g	MTBE	B	T	E	X	PCE
SB-1	<35.2	<0.36	20	170	22	84	8.2
SB-2	<35.2	<0.36	2.7	14	1.5	6.0	ND<0.68
SB-3	2,780	<0.36	31	320	42	170	4.9
ESLs	26,000	9,400	85	63,000	420,000	150,000	410

TPH-g = Total petroleum hydrocarbon as gasoline.

MBTEX = Methyl tert butyl ether, benzene, toluene, ethylbenzene and m,p-xylenes.

PCE = Tetrachloroethene, aka: PERC or dry-cleaning solvent.

<50 = Not detected at laboratory detection limit of  $50 \mu\text{g}/\text{m}^3$ .

TPH-g was detected in soil vapor from SB-3 at concentrations of  $2,780 \mu\text{g}/\text{m}^3$ , which was below the ESL of  $26,000 \mu\text{g}/\text{m}^3$ . MTBE was not detected in any of the three borings. BTEX was detected in all three borings at low concentrations, below the ESLs.

Other VOCs detected in the soil vapor included trimethylbenzene, ethyl-toluene, methyl-pentanone, acetone, carbon disulfide, dichlorodifluoromethane, hexane, isopropanol, styrene, tetrachloroethene (PCE), and trifluoromethane. These VOCs were detected at very low concentrations and are not an environmental concern.

Based on the laboratory results for soil vapor samples collected at three locations, elevated concentrations of gasoline and other volatile chemicals were detected in SB-3, which was the boring directly adjacent to Telegraph Avenue. The concentrations were below the "Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns" as defined by the RWQCB. Based on the location of the elevated concentrations adjacent to the street, and the low concentrations, there is a low potential that indoor air spaces of future onsite structures would be affected. However, as a safety precaution, SCHUTZE & Associates, Inc. recommends the installation of vapor barriers or sub-slab venting equipment in future structures.

### F. INDOOR AIR SURVEY

TPH-g and BTEX were detected in groundwater and soil vapor beneath the eastern portion of the subject site, adjacent to Telegraph Avenue. Because of the presence of these compounds SCHUTZE & Associates, Inc. recommended an indoor air survey to further evaluate a potential health risk to humans.

As part of pre-sampling activities, SCHUTZE & Associates, Inc. reviewed specific features of the restaurant building. Based on the building layout, SCHUTZE & Associates, Inc. selected one indoor-air sampling location, which was in the central

portion of the building.

### F.1 Indoor Air Survey Sampling and Laboratory Methodology

SCHUTZE & Associates performed a limited indoor air survey consisting of the collection of one indoor air sample and one ambient air sample. SCHUTZE & Associates, Inc. performed the following activities:

- Conducted a pre-sampling site visit to identify sampling locations.
- Prepared a health and safety plan prior to conducting field activities.
- Collected one 8-hour indoor air sample using an evacuated 6-liter stainless steel Summa canister and flow controller provided by a California DHS certified analytical laboratory.
- Collected one 8-hour outdoor, ambient air sample from an onsite location to provide background data at the time of the indoor air sampling. This sample was collected outside of and upwind of the building as determined by the prevailing wind direction on the sampling day.
- Analyzed the samples using U.S. Environmental Protection Agency (EPA) Methods TO-14 and TO-15 Selective Ion to quantify concentrations of halogenated VOCs and TPH-g.
- Recorded pertinent meteorological conditions, including but not limited to temperature, barometric pressure and wind speed during the sampling event.

### F.2 Indoor Air Survey Analytical Results

The laboratory report for the indoor air samples is summarized in Table 3 below:

**Table 3**  
**Indoor Air Analytical Results**  
**(Reported in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ))**

Sample	TPH-g	MTBE	B	T	E	X	PCE
IA-01	847	<0.36	1.1	1.9	<0.334	1.6	<0.68
OA-01	1,100	<0.36	0.89	1.5	<0.334	1.4	<0.68
IASLs	26	9.4	0.14	63	420	150	0.41

IASLs = Indoor Air Screening Levels as set forth by the RWQCB, February 2005, Table E-3.

TPH-g = Total petroleum hydrocarbon as gasoline.

MBTEX = Methyl tert butyl ether, benzene, toluene, ethylbenzene and m,p-xylenes.

PCE = Tetrachloroethene, aka: PERC or dry-cleaning solvent.

<50 = Not detected at laboratory detection limit of  $50 \mu\text{g}/\text{m}^3$ .

The TPH-g concentrations in the indoor air and ambient air samples were  $847 \mu\text{g}/\text{m}^3$  and  $1,100 \mu\text{g}/\text{m}^3$ , respectively, which exceeds the IASL of 26 for TPH-g. The benzene concentrations in the indoor air and ambient air samples were  $0.89 \mu\text{g}/\text{m}^3$  and  $1.1 \mu\text{g}/\text{m}^3$ , respectively, which exceeds the IASL of 0.14 for benzene.

TPH-g and benzene were detected at equivalent levels in the indoor and ambient air



samples, which suggests that the emissions from by vehicles and industrial faculties in the area of the site were the cause of the indoor air contamination.

Even though the indoor air contamination was, apparently, caused by off-site, SCHUTZE & Associates, Inc. recommends installing sub-slab vapor barriers and venting beneath future structures.

## **G. DATA VALIDATION AND QUALITY CONTROL**

All laboratory results underwent data validation by a senior chemist. 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 are not usable for most purposes. The validation resulted in the following observations, qualifications and changes: no results were rejected.

## **H. CONCLUSION**

SCHUTZE & Associates, Inc. has completed a Phase II Subsurface Investigation at the former restaurant property located at 5239 Telegraph Avenue, Oakland, California. The subject site has an area of approximately 5,170 square feet and is located on the west side of Telegraph Avenue, just north of the intersection of Claremont and Telegraph Avenues with 52<sup>nd</sup> Street. The subject site consists of Assessor's Parcel Number 14-1219-2.

Review of reports by other consultants indicated that two gasoline service stations in the vicinity of the subject site have potentially caused fuel or solvent contamination to the soil and/or groundwater beneath the subject site and surrounding areas. These sites were the former Chevron Station at 5101 Telegraph Avenue, and the former AutoPro facility at 5200 Telegraph Avenue.

At the former Chevron gasoline service station, USTs were removed in 1991. Contamination was discovered at the time of the tank removal and groundwater monitoring started in 1991. TPH-g levels in groundwater were as high as 35,000 µg/L. Benzene was detected at concentrations of up to 390 µg/L. Apparently, the case is still open. It is the opinion of SCHUTZE & Associates, Inc. that, based on the down-gradient location of this site and distance from the subject site (approximately 300 ft), there is a low potential that this site has environmentally impacted the subject site.

At the former AutoPro facility, five USTs were removed in 1990. It was discovered that groundwater contamination had occurred and monitoring wells were installed in 1990. The depth to groundwater in these wells was measured to be at 10 to 13 ft bgs, and the groundwater flow direction was in a south-southwesterly direction. TPH-g concentrations of up to 33,000 µg/L were reported. Benzene concentrations were reported at concentrations of up to 120 µg/L. Monitoring well MW-5 was closest to the

subject site and was installed on Telegraph Avenue between the AutoPro site and the subject site. In 2002, the TPH-g concentrations levels in MW-5 were 9,000 µg/L. The concentrations seemed to be increasing over time, indicating that contamination from this facility was migrating toward the subject site. However, based on the test results for two additional borings on Telegraph Avenue, it was concluded that the contamination was not traveling across Telegraph Avenue to the subject site.

SCHUTZE & Associates, Inc. drilled at the subject site on April 10, 2007 using a Geoprobe rig. Three groundwater samples were collected and analyzed for TPH-g and MBTEX. TPH-g was detected in Borings SB-2 and SB-3 at concentrations of 17,000 and 12,000 µg/L, respectively. MTBE, benzene and xylenes were not detected. The TPH-g concentrations in SB-2 and SB-3 exceeded the Screening Level of the RWQCB of 100 µg/L. Based on the laboratory results for groundwater samples, a plume of TPH-g in groundwater exists beneath the eastern portion of the subject site. The plume has not migrated to the central or back portion of the subject site. It is the opinion of SCHUTZE & Associates, Inc., that the plume from the AutoPro site has traveled to the subject site, in a migration pathway such as an utility trench not tested by the consultants of AutoPro, or there was another unreported fuel leak or spill on Telegraph Avenue. There was no indication that historical or recent activities on the restaurant property have caused or contributed to this contamination.

For the soil vapor survey, SCHUTZE & Associates, Inc. subcontracted a licensed drilling contractor and collected soil vapor samples at depths of 5 ft bgs using Summa canisters. The vapor samples were analyzed for TPH-g and VOCs using EPA Methods TO-14 and TO-15. TPH-g was detected in soil vapor from SB-3 at concentrations of 2,780 µg/m<sup>3</sup>, which was below the ESL of 26,000 µg/m<sup>3</sup>. Based on the laboratory results, elevated concentrations of gasoline and other volatile chemicals were detected directly adjacent to Telegraph Avenue. The concentrations were below the "Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns" as defined by the RWQCB. Based on the location of the elevated concentrations adjacent to the street, and the low concentrations, there is a low potential that indoor air spaces of future onsite structures would be affected.

The TPH-g and benzene concentrations in the indoor air sample exceeded the Screening Levels of the RWQCB. However, TPH-g and benzene were detected at equivalent levels in the indoor and ambient air samples, which indicates that the contamination was caused by emissions from vehicles and industrial facilities in the area of the site.

## **I. RECOMMENDATIONS**

The groundwater beneath the subject site is contaminated by TPH and BTEX at levels exceeding the Screening Levels of the RWQCB. Impacted groundwater encountered during construction could affect development schedules and construction costs. SCHUTZE & Associates, Inc. recommends forwarding a copy of this report to the

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ACEHD to make the agency aware of the extent of the contamination originating from off-site sources.

Based on the results of the soil vapor survey, vapors of TPH-g and benzene exist beneath the eastern portion of the subject site, along Telegraph Avenue. The concentrations were below the Screening Levels of the RWQCB. Therefore, no further subsurface investigations are recommended. However, as a safety precaution, SCHUTZE & Associates, Inc. recommends the installation of vapor barriers or sub-slab venting equipment in future structures.

Based on the analytical results for the indoor and ambient air samples, the indoor air contamination by TPH-g and benzene was caused by vehicle and industrial emissions in the area of the subject site. SCHUTZE & Associates, Inc. recommends no further indoor air testing.

We have enjoyed working with you on this project. Please call Jan Schutze at (510) 625-8175, if you need further information.

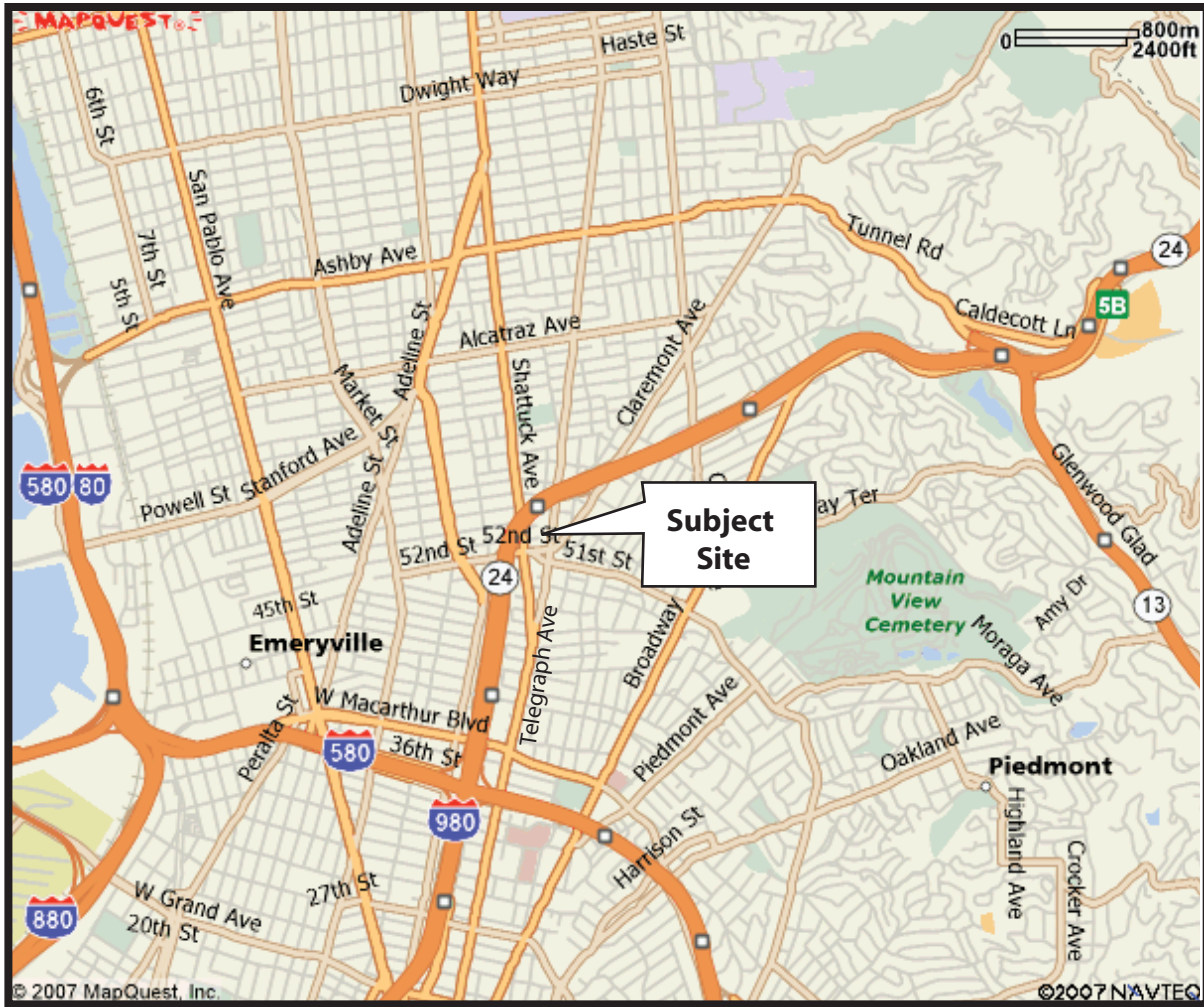
Cordially,

SCHUTZE & Associates, Inc.



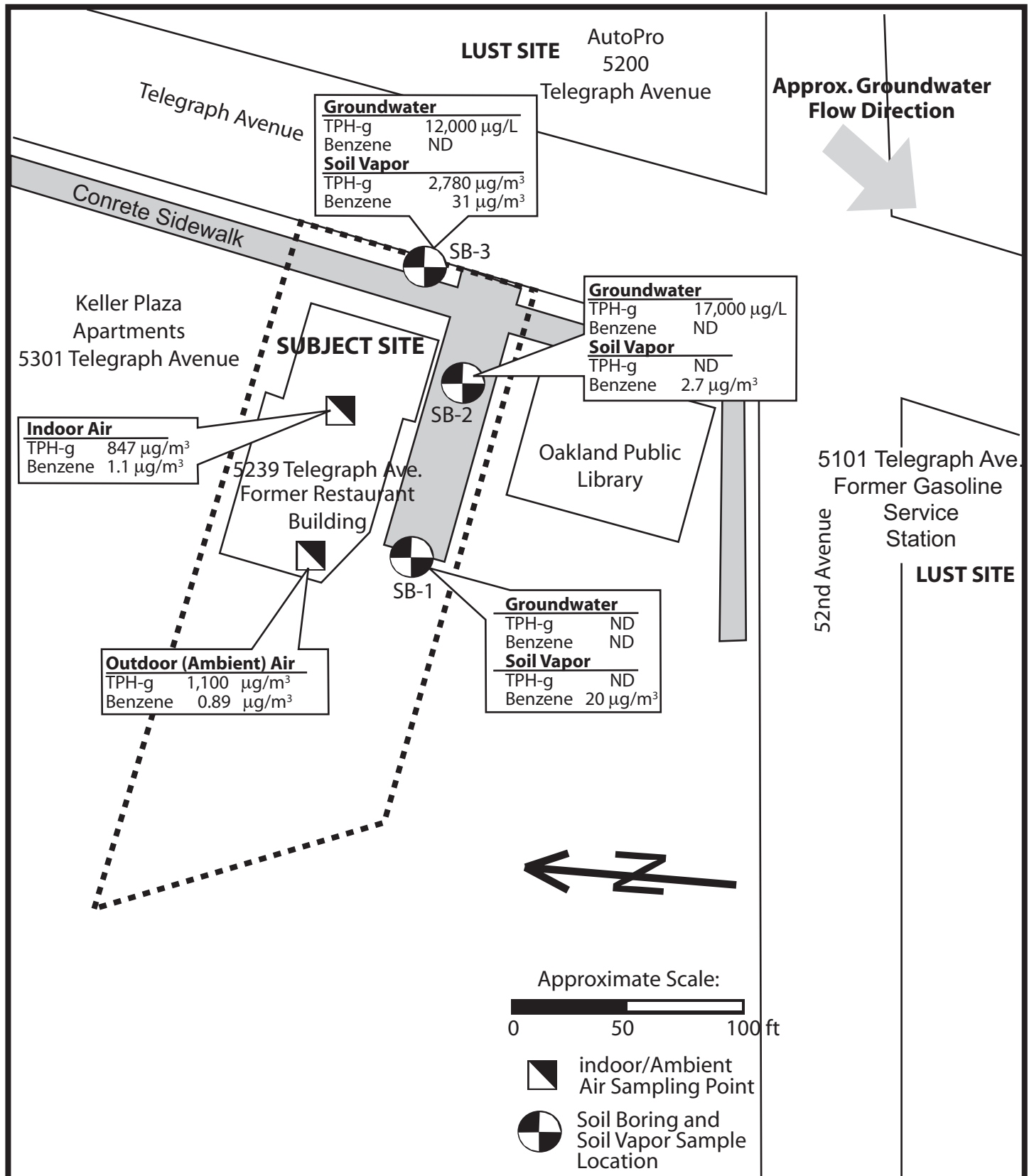
Jan Schütze, R.G., M.Sc.  
President

**Figures 1 and 2  
Location Map and Site Plan**



**Location Map  
5239 Telegraph Avenue  
Oakland, California**

**FIGURE 1**  
May 2007



**Boring/Sample Locations and Analytical Results  
5239 Telegraph Avenue, Oakland, CA**

# **Site Photographs**



**Photograph 1:** View of the subject site from the east.



**Photograph 2:** South side of building during Geoprobe boring.



**Photograph 3:** Soil vapor extraction in progress.



**Photograph 4:** Indoor air quality survey in progress.



# **Appendix A**

## **Laboratory Reports**



**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 436 14th Street, Ste.1216 Oakland, CA 94612	Client Project ID: #SCS225; 5239 Telegraph	Date Sampled: 04/10/07
		Date Received: 04/11/07
	Client Contact: Jan Schutze	Date Reported: 04/16/07
	Client P.O.:	Date Completed: 04/16/07

**WorkOrder: 0704223**

April 16, 2007

Dear Jan:

Enclosed are:

- 1). the results of 3 analyzed samples from your #SCS225; 5239 Telegraph project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

# McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Rd., Pittsburg, CA 94565

0704223

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)

Telephone: (925) 252-9262

Fax: (925) 252-9269

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH  
 24 HR  
 48 HR  
 72 HR  
 JAY

EDF Required? Coelt (Normal)  No Write On (DW) No

Report To: Jan Schutze Bill To: SCHUTZE & Associates, Inc.

Company: SCHUTZE & Associates, Inc.

436-14th Street, Suite 1216, Oakland, CA 94612

E-Mail: [js@schutze-inc.com](mailto:js@schutze-inc.com)

Tele: (510) 625-8175

Fax: (510) 625-8175

Project #: SCS225

Project Name: 5239 Telegraph

Project Location: 5239 Telegraph Avenue, Oakland, CA 94609

Sampler Signature: *[Signature]*

### Analysis Request

### Other Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Fuel Fingerprint/ID Incl. Chromatograms	Total Petroleum Hydrocarbons (418,1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 807 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Chlorides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SEM / 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 Samples for Metals analysis: Yes / No			
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other																				
+10 SB1-22		4-10-7	11:30 A	4	V/A	X					X	X		X																				
+10 SB2-16		4-10-7	10:30 A	4	V/A	X					X	X		X	X																			
+10 SB3-16		4-10-7	9:30 A	4	V/A	X					X	X		X																				

Relinquished By: <i>G. Peteram</i>	Date: 4/11	Time: 11:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 4/11/07	Time: 11:30	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:

COMMENTS:  
 ICE/13.4  
 GOOD CONDITION ✓  
 HEADSPACE ABSENT ✓  
 DECHLORINATED IN LAB ✓  
 APPROPRIATE CONTAINERS ✓  
 PRESERVED IN LAB ✓  
 VOAS O&G METALS OTHER  
 PRESERVATION pH<2

**McC Campbell Analytical, Inc.**

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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0704223

ClientID: SCO

EDF     Excel     Fax     Email     HardCopy     ThirdParty

**Report to:**  
 Jan Schutze  
 Schutze & Associates  
 436 14th Street, Ste.1216  
 Oakland, CA 94612

**Email:** js@schutze-inc.com  
**TEL:** (510) 625-817    **FAX:** (510) 625-817  
**ProjectNo:** #SCS225; 5239 Telegraph  
**PO:**

**Bill to:**  
 Accounts Payable  
 Schutze Consulting  
 436 14th Street, Ste.1216  
 Oakland, CA 94612

**Requested TAT: 5 days**  
**Date Received 04/11/2007**  
**Date Printed: 04/11/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0704223-001	SB1-22	Water	04/10/07 11:30:00	<input type="checkbox"/>	A												
0704223-002	SB2-16	Water	04/10/07 10:30:00	<input type="checkbox"/>	A	B											
0704223-003	SB3-16	Water	04/10/07 9:30:00	<input type="checkbox"/>	A												

**Test Legend:**

1	G-MBTX_W	2	TPH(DMO)_W	3		4		5	
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:**

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



### Sample Receipt Checklist

Client Name: **Schutze & Associates**

Date and Time Received: **04/11/07 1:33:23 PM**

Project Name: **#SCS225; 5239 Telegraph**

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

WorkOrder N°: **0704223** Matrix Water

Carrier: Rob Pringle (MAI Courier)

#### 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: 13.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
- Sample labels checked for correct preservation? Yes  No

Client contacted:

Date contacted:

Contacted by:

Comments: Sample SB1-22 was labeled SB1-16, called client (Jan) to ask which was correct, client said COC was correct.



# 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  436 14th Street, Ste.1216  Oakland, CA 94612	Client Project ID: #SCS225; 5239 Telegraph	Date Sampled: 04/10/07
		Date Received: 04/11/07
	Client Contact: Jan Schutze	Date Extracted: 04/12/07
	Client P.O.:	Date Analyzed: 04/12/07

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0704223

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB1-22	W	ND,i	ND	ND	ND	ND	ND	1	92
002A	SB2-16	W	17,000,m,h,i	ND<50	ND<5.0	27	15	ND<5.0	10	107
003A	SB3-16	W	12,000,m,h,i	ND<50	ND<5.0	11	14	ND<5.0	10	104

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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



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"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  436 14th Street, Ste.1216  Oakland, CA 94612	Client Project ID: #SCS225; 5239 Telegraph	Date Sampled: 04/10/07
	Client Contact: Jan Schutze	Date Received: 04/11/07
	Client P.O.:	Date Extracted: 04/11/07
		Date Analyzed: 04/12/07

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0704223

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0704223-002B	SB2-16	W	25,000,d,h,i	ND<25,000	100	---#

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

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

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

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



**QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0704223

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 27379			Spiked Sample ID: 0704206-001A				
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
TPH(btex) <sup>£</sup>	ND	60	94.2	95.1	0.875	105	111	6.10	70 - 130	30	70 - 130	30
MTBE	ND	10	90.6	121	28.5	109	106	2.92	70 - 130	30	70 - 130	30
Benzene	ND	10	109	118	7.72	93.2	94.8	1.68	70 - 130	30	70 - 130	30
Toluene	ND	10	100	105	4.39	103	104	1.55	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	108	110	2.06	99.5	102	2.10	70 - 130	30	70 - 130	30
Xylenes	ND	30	107	107	0	110	113	2.99	70 - 130	30	70 - 130	30
%SS:	102	10	99	105	5.58	94	95	0.440	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 27379 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704223-001A	04/10/07 11:30 AM	04/12/07	04/12/07 1:07 AM	0704223-002A	04/10/07 10:30 AM	04/12/07	04/12/07 12:34 AM
0704223-003A	04/10/07 9:30 AM	04/12/07	04/12/07 12:01 AM				

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.





### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0704223

Analyte	EPA Method SW8015C		Extraction SW3510C			BatchID: 27359			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(d)	N/A	1000	N/A	N/A	N/A	98.8	98.4	0.338	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	99	99	0	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 27359 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0704223-002B	04/10/07 10:30 AM	04/11/07	04/12/07 7:14 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.



# TORRENT LABORATORY, INC.

483 Sinclair Frontage Rd. • Milpitas, CA 95035 • Ph: (408) 263-5258 • Fax: (408) 263-8293

[www.torrentlab.com](http://www.torrentlab.com)

April 18, 2007

Jan Schutze  
Schutze & Associates Inc  
436 14th Street, Suite 1216  
Oakland, CA 94612

TEL: (510) 625-8175

FAX (510) 625-8176

RE: 5239

Order No.: 0704041

Dear Jan Schutze:

Torrent Laboratory, Inc. received 5 samples on 4/10/2007 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

  
Laboratory Director

4/18/07  
Date



# TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at [www.torrentlab.com](http://www.torrentlab.com) email: [analysis@torrentlab.com](mailto:analysis@torrentlab.com)

**Report prepared for:** Jan Schutze  
Schutze & Associates Inc

**Date Received:** 4/10/2007  
**Date Reported:** 4/18/2007

**Client Sample ID:** SB-1  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 9:52:00 AM

**Lab Sample ID:** 0704041-001  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Gasoline	TO-14(MOD)	4/17/2007	35.2	1.61	57	ND	µg/m <sup>3</sup>	R12440

Note: Reporting limit increased due to low pressure in Summa canister.

Client Sample ID: SB-1  
Sample Location: 5239 Telegraph  
Sample Matrix: AIR  
Date/Time Sampled 4/10/2007 9:52:00 AM

Lab Sample ID: 0704041-001  
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	4/12/2007	0.4	1	0.20	ND	µg/m <sup>3</sup>	R12438
1,1,1,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,1-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1,2,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,2-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trichlorobenzene	TO-15	4/12/2007	0.712	1	0.36	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	11	µg/m <sup>3</sup>	R12438
1,2-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloropropane	TO-15	4/12/2007	0.693	1	0.35	ND	µg/m <sup>3</sup>	R12438
1,3,5-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	3.2	µg/m <sup>3</sup>	R12438
1,3-Butadiene	TO-15	4/12/2007	0.22	1	0.11	ND	µg/m <sup>3</sup>	R12438
1,3-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dioxane	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
2-Butanone (MEK)	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
2-Hexanone	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
4-Ethyl Toluene	TO-15	4/12/2007	0.492	1	0.25	16	µg/m <sup>3</sup>	R12438
4-Methyl-2-Pentanone (MIBK)	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
Acetone	TO-15	4/12/2007	0.238	10	2.4	19	µg/m <sup>3</sup>	R12438
Benzene	TO-15	4/12/2007	0.32	10	3.2	20	µg/m <sup>3</sup>	R12438
Benzyl Chloride	TO-15	4/12/2007	0.58	1	0.29	ND	µg/m <sup>3</sup>	R12438
Bromodichloromethane	TO-15	4/12/2007	0.67	1	0.34	ND	µg/m <sup>3</sup>	R12438
Bromoform	TO-15	4/12/2007	1.034	1	0.52	ND	µg/m <sup>3</sup>	R12438
Bromomethane	TO-15	4/12/2007	0.388	1	0.19	ND	µg/m <sup>3</sup>	R12438
Carbon Disulfide	TO-15	4/12/2007	0.31	1	0.16	2.0	µg/m <sup>3</sup>	R12438
Carbon Tetrachloride	TO-15	4/12/2007	0.63	1	0.32	ND	µg/m <sup>3</sup>	R12438
Chlorobenzene	TO-15	4/12/2007	0.46	1	0.23	ND	µg/m <sup>3</sup>	R12438
Chloroethane	TO-15	4/12/2007	0.528	1	0.26	ND	µg/m <sup>3</sup>	R12438
Chloroform	TO-15	4/12/2007	0.488	1	0.24	ND	µg/m <sup>3</sup>	R12438
Chloromethane	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m <sup>3</sup>	R12438
cis-1,2-dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
cis-1,3-Dichloropropene	TO-15	4/12/2007	0.454	1	0.23	ND	µg/m <sup>3</sup>	R12438
Dibromochloromethane	TO-15	4/12/2007	0.852	1	0.43	ND	µg/m <sup>3</sup>	R12438
Dichlorodifluoromethane	TO-15	4/12/2007	0.5	1	0.25	2.4	µg/m <sup>3</sup>	R12438
Ethyl Acetate	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Ethyl Benzene	TO-15	4/12/2007	0.334	10	3.3	22	µg/m <sup>3</sup>	R12438
Freon 113	TO-15	4/12/2007	0.766	1	0.38	3.1 J	µg/m <sup>3</sup>	R12438
Hexachlorobutadiene	TO-15	4/12/2007	2.13	1	1.1	ND	µg/m <sup>3</sup>	R12438
Hexane	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Isopropanol	TO-15	4/12/2007	0.41	1	0.21	2.0	µg/m <sup>3</sup>	R12438
m,p-Xylene	TO-15	4/12/2007	0.82	10	8.2	84	µg/m <sup>3</sup>	R12438

**Client Sample ID:** SB-1  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 9:52:00 AM

**Lab Sample ID:** 0704041-001  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Methylene Chloride	TO-15	4/12/2007	0.361	1	0.18	ND	µg/m <sup>3</sup>	R12438
MTBE	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Naphthalene	TO-15	4/12/2007	0.524	1	0.26	2.7 J	µg/m <sup>3</sup>	R12438
o-xylene	TO-15	4/12/2007	0.434	10	4.3	25	µg/m <sup>3</sup>	R12438
Styrene	TO-15	4/12/2007	0.426	1	0.21	1.9	µg/m <sup>3</sup>	R12438
Tetrachloroethene	TO-15	4/12/2007	0.678	1	0.34	8.2	µg/m <sup>3</sup>	R12438
Tetrahydrofuran	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
Toluene	TO-15	4/12/2007	0.38	10	3.8	170	µg/m <sup>3</sup>	R12438
trans-1,2-Dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
Trichloroethene	TO-15	4/12/2007	0.54	1	0.27	ND	µg/m <sup>3</sup>	R12438
Trichlorofluoromethane	TO-15	4/12/2007	0.5	1	0.25	2.2	µg/m <sup>3</sup>	R12438
Vinyl Acetate	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Vinyl Chloride	TO-15	4/12/2007	0.256	1	0.13	ND	µg/m <sup>3</sup>	R12438

**Report prepared for:** Jan Schutze  
Schutze & Associates Inc

**Date Received:** 4/10/2007  
**Date Reported:** 4/18/2007

**Client Sample ID:** SB-2  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 9:15:00 AM

**Lab Sample ID:** 0704041-002  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Gasoline	TO-14(MOD)	4/17/2007	35.2	1	35	ND	µg/m <sup>3</sup>	R12440

Client Sample ID: SB-2  
Sample Location: 5239 Telegraph  
Sample Matrix: AIR  
Date/Time Sampled 4/10/2007 9:15:00 AM

Lab Sample ID: 0704041-002  
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	4/12/2007	0.4	1	0.20	ND	µg/m <sup>3</sup>	R12438
1,1,1,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,1-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1,2,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,2-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trichlorobenzene	TO-15	4/12/2007	0.712	1	0.36	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	1.3	µg/m <sup>3</sup>	R12438
1,2-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloropropane	TO-15	4/12/2007	0.693	1	0.35	ND	µg/m <sup>3</sup>	R12438
1,3,5-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	0.59	µg/m <sup>3</sup>	R12438
1,3-Butadiene	TO-15	4/12/2007	0.22	1	0.11	ND	µg/m <sup>3</sup>	R12438
1,3-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dioxane	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
2-Butanone (MEK)	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
2-Hexanone	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
4-Ethyl Toluene	TO-15	4/12/2007	0.492	1	0.25	1.5	µg/m <sup>3</sup>	R12438
4-Methyl-2-Pentanone (MIBK)	TO-15	4/12/2007	0.41	1	0.21	16	µg/m <sup>3</sup>	R12438
Acetone	TO-15	4/12/2007	0.238	1	0.12	15	µg/m <sup>3</sup>	R12438
Benzene	TO-15	4/12/2007	0.32	1	0.16	2.7	µg/m <sup>3</sup>	R12438
Benzyl Chloride	TO-15	4/12/2007	0.58	1	0.29	ND	µg/m <sup>3</sup>	R12438
Bromodichloromethane	TO-15	4/12/2007	0.67	1	0.34	ND	µg/m <sup>3</sup>	R12438
Bromoform	TO-15	4/12/2007	1.034	1	0.52	ND	µg/m <sup>3</sup>	R12438
Bromomethane	TO-15	4/12/2007	0.388	1	0.19	ND	µg/m <sup>3</sup>	R12438
Carbon Disulfide	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m <sup>3</sup>	R12438
Carbon Tetrachloride	TO-15	4/12/2007	0.63	1	0.32	ND	µg/m <sup>3</sup>	R12438
Chlorobenzene	TO-15	4/12/2007	0.46	1	0.23	ND	µg/m <sup>3</sup>	R12438
Chloroethane	TO-15	4/12/2007	0.528	1	0.26	ND	µg/m <sup>3</sup>	R12438
Chloroform	TO-15	4/12/2007	0.488	1	0.24	ND	µg/m <sup>3</sup>	R12438
Chloromethane	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m <sup>3</sup>	R12438
cis-1,2-dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
cis-1,3-Dichloropropene	TO-15	4/12/2007	0.454	1	0.23	ND	µg/m <sup>3</sup>	R12438
Dibromochloromethane	TO-15	4/12/2007	0.852	1	0.43	ND	µg/m <sup>3</sup>	R12438
Dichlorodifluoromethane	TO-15	4/12/2007	0.5	1	0.25	2.2	µg/m <sup>3</sup>	R12438
Ethyl Acetate	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Ethyl Benzene	TO-15	4/12/2007	0.334	1	0.17	1.5	µg/m <sup>3</sup>	R12438
Freon 113	TO-15	4/12/2007	0.766	1	0.38	1.1	µg/m <sup>3</sup>	R12438
Hexachlorobutadiene	TO-15	4/12/2007	2.13	1	1.1	ND	µg/m <sup>3</sup>	R12438
Hexane	TO-15	4/12/2007	0.352	1	0.18	5.1	µg/m <sup>3</sup>	R12438
Isopropanol	TO-15	4/12/2007	0.41	1	0.21	22	µg/m <sup>3</sup>	R12438
m,p-Xylene	TO-15	4/12/2007	0.82	1	0.41	6.0	µg/m <sup>3</sup>	R12438

**Client Sample ID:** SB-2  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 9:15:00 AM

**Lab Sample ID:** 0704041-002

**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Methylene Chloride	TO-15	4/12/2007	0.361	1	0.18	6.0	µg/m <sup>3</sup>	R12438
MTBE	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Naphthalene	TO-15	4/12/2007	0.524	1	0.26	ND	µg/m <sup>3</sup>	R12438
o-xylene	TO-15	4/12/2007	0.434	1	0.22	1.8	µg/m <sup>3</sup>	R12438
Styrene	TO-15	4/12/2007	0.426	1	0.21	0.51	µg/m <sup>3</sup>	R12438
Tetrachloroethene	TO-15	4/12/2007	0.678	1	0.34	ND	µg/m <sup>3</sup>	R12438
Tetrahydrofuran	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
Toluene	TO-15	4/12/2007	0.38	1	0.19	14	µg/m <sup>3</sup>	R12438
trans-1,2-Dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
Trichloroethene	TO-15	4/12/2007	0.54	1	0.27	ND	µg/m <sup>3</sup>	R12438
Trichlorofluoromethane	TO-15	4/12/2007	0.5	1	0.25	1.5	µg/m <sup>3</sup>	R12438
Vinyl Acetate	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Vinyl Chloride	TO-15	4/12/2007	0.256	1	0.13	ND	µg/m <sup>3</sup>	R12438



**Report prepared for:** Jan Schutze  
Schutze & Associates Inc

**Date Received:** 4/10/2007

**Date Reported:** 4/18/2007

**Client Sample ID:** SB-3  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 10:30:00 AM

**Lab Sample ID:** 0704041-003

**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Gasoline	TO-14(MOD)	4/17/2007	35.2	1.61	57	2780 x	µg/m <sup>3</sup>	R12440

Note: x-Although Gasoline is present, the results are elevated due to the presence of non-target hydrocarbons within the TPH as Gasoline quantitation range. Reporting limit increased due to low pressure in Summa canister.

Client Sample ID: SB-3  
Sample Location: 5239 Telegraph  
Sample Matrix: AIR  
Date/Time Sampled 4/10/2007 10:30:00 AM

Lab Sample ID: 0704041-003  
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	4/12/2007	0.4	1	0.20	ND	µg/m <sup>3</sup>	R12438
1,1,1,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,1-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1,2,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m <sup>3</sup>	R12438
1,1,2-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m <sup>3</sup>	R12438
1,1-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trichlorobenzene	TO-15	4/12/2007	0.712	1	0.36	ND	µg/m <sup>3</sup>	R12438
1,2,4-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	22	µg/m <sup>3</sup>	R12438
1,2-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
1,2-Dichloropropane	TO-15	4/12/2007	0.693	1	0.35	ND	µg/m <sup>3</sup>	R12438
1,3,5-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	7.6	µg/m <sup>3</sup>	R12438
1,3-Butadiene	TO-15	4/12/2007	0.22	1	0.11	ND	µg/m <sup>3</sup>	R12438
1,3-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m <sup>3</sup>	R12438
1,4-Dioxane	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
2-Butanone (MEK)	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
2-Hexanone	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
4-Ethyl Toluene	TO-15	4/12/2007	0.492	1	0.25	34	µg/m <sup>3</sup>	R12438
4-Methyl-2-Pentanone (MIBK)	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m <sup>3</sup>	R12438
Acetone	TO-15	4/12/2007	0.238	5	1.2	22	µg/m <sup>3</sup>	R12438
Benzene	TO-15	4/12/2007	0.32	5	1.6	31	µg/m <sup>3</sup>	R12438
Benzyl Chloride	TO-15	4/12/2007	0.58	1	0.29	ND	µg/m <sup>3</sup>	R12438
Bromodichloromethane	TO-15	4/12/2007	0.67	1	0.34	ND	µg/m <sup>3</sup>	R12438
Bromoform	TO-15	4/12/2007	1.034	1	0.52	ND	µg/m <sup>3</sup>	R12438
Bromomethane	TO-15	4/12/2007	0.388	1	0.19	ND	µg/m <sup>3</sup>	R12438
Carbon Disulfide	TO-15	4/12/2007	0.31	1	0.16	4.9	µg/m <sup>3</sup>	R12438
Carbon Tetrachloride	TO-15	4/12/2007	0.63	1	0.32	ND	µg/m <sup>3</sup>	R12438
Chlorobenzene	TO-15	4/12/2007	0.46	1	0.23	ND	µg/m <sup>3</sup>	R12438
Chloroethane	TO-15	4/12/2007	0.528	1	0.26	ND	µg/m <sup>3</sup>	R12438
Chloroform	TO-15	4/12/2007	0.488	1	0.24	ND	µg/m <sup>3</sup>	R12438
Chloromethane	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m <sup>3</sup>	R12438
cis-1,2-dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
cis-1,3-Dichloropropene	TO-15	4/12/2007	0.454	1	0.23	ND	µg/m <sup>3</sup>	R12438
Dibromochloromethane	TO-15	4/12/2007	0.852	1	0.43	ND	µg/m <sup>3</sup>	R12438
Dichlorodifluoromethane	TO-15	4/12/2007	0.5	1	0.25	2.6	µg/m <sup>3</sup>	R12438
Ethyl Acetate	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Ethyl Benzene	TO-15	4/12/2007	0.334	5	1.7	42	µg/m <sup>3</sup>	R12438
Freon 113	TO-15	4/12/2007	0.766	1	0.38	1.8	µg/m <sup>3</sup>	R12438
Hexachlorobutadiene	TO-15	4/12/2007	2.13	1	1.1	ND	µg/m <sup>3</sup>	R12438
Hexane	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Isopropanol	TO-15	4/12/2007	0.41	1	0.21	1.7	µg/m <sup>3</sup>	R12438
m,p-Xylene	TO-15	4/12/2007	0.82	5	4.1	170	µg/m <sup>3</sup>	R12438

Client Sample ID: SB-3  
Sample Location: 5239 Telegraph  
Sample Matrix: AIR  
Date/Time Sampled 4/10/2007 10:30:00 AM

Lab Sample ID: 0704041-003  
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Methylene Chloride	TO-15	4/12/2007	0.361	1	0.18	ND	µg/m <sup>3</sup>	R12438
MTBE	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Naphthalene	TO-15	4/12/2007	0.524	1	0.26	1.5	µg/m <sup>3</sup>	R12438
o-xylene	TO-15	4/12/2007	0.434	5	2.2	50	µg/m <sup>3</sup>	R12438
Styrene	TO-15	4/12/2007	0.426	1	0.21	2.5	µg/m <sup>3</sup>	R12438
Tetrachloroethene	TO-15	4/12/2007	0.678	1	0.34	4.9	µg/m <sup>3</sup>	R12438
Tetrahydrofuran	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
Toluene	TO-15	4/12/2007	0.38	20	7.6	320	µg/m <sup>3</sup>	R12438
trans-1,2-Dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
Trichloroethene	TO-15	4/12/2007	0.54	1	0.27	ND	µg/m <sup>3</sup>	R12438
Trichlorofluoromethane	TO-15	4/12/2007	0.5	1	0.25	ND	µg/m <sup>3</sup>	R12438
Vinyl Acetate	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Vinyl Chloride	TO-15	4/12/2007	0.256	1	0.13	ND	µg/m <sup>3</sup>	R12438

**Report prepared for:** Jan Schutze  
Schutze & Associates Inc

**Date Received:** 4/10/2007  
**Date Reported:** 4/18/2007

**Client Sample ID:** 1A-01  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 7:27:00 PM

**Lab Sample ID:** 0704041-004  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Gasoline	TO-14(MOD)	4/17/2007	200	1	200	847 x	µg/m <sup>3</sup>	R12440

Note: x-Although Gasoline is present, the results are elevated due to the presence of non-target hydrocarbons within the TPH as Gasoline quantitation range.

<b>Client Sample ID:</b> 1A-01	<b>Lab Sample ID:</b> 0704041-004
<b>Sample Location:</b> 5239 Telegraph	<b>Date Prepared:</b>
<b>Sample Matrix:</b> AIR	
<b>Date/Time Sampled</b> 4/10/2007 7:27:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	4/12/2007	0.4	1	0.20	ND	µg/m³	R12438
1,1,1,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m³	R12438
1,1,1-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m³	R12438
1,1,2,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m³	R12438
1,1,2-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m³	R12438
1,1-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
1,2,4-Trichlorobenzene	TO-15	4/12/2007	0.712	1	0.36	ND	µg/m³	R12438
1,2,4-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	ND	µg/m³	R12438
1,2-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,2-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
1,2-Dichloropropane	TO-15	4/12/2007	0.693	1	0.35	ND	µg/m³	R12438
1,3,5-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	ND	µg/m³	R12438
1,3-Butadiene	TO-15	4/12/2007	0.22	1	0.11	ND	µg/m³	R12438
1,3-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,4-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,4-Dioxane	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m³	R12438
2-Butanone (MEK)	TO-15	4/12/2007	0.3	1	0.15	2.3	µg/m³	R12438
2-Hexanone	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
4-Ethyl Toluene	TO-15	4/12/2007	0.492	1	0.25	0.76	µg/m³	R12438
4-Methyl-2-Pentanone (MIBK)	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
Acetone	TO-15	4/12/2007	0.238	1	0.12	8.9	µg/m³	R12438
Benzene	TO-15	4/12/2007	0.32	1	0.16	1.1	µg/m³	R12438
Benzyl Chloride	TO-15	4/12/2007	0.58	1	0.29	ND	µg/m³	R12438
Bromodichloromethane	TO-15	4/12/2007	0.67	1	0.34	ND	µg/m³	R12438
Bromoform	TO-15	4/12/2007	1.034	1	0.52	ND	µg/m³	R12438
Bromomethane	TO-15	4/12/2007	0.388	1	0.19	1.0	µg/m³	R12438
Carbon Disulfide	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m³	R12438
Carbon Tetrachloride	TO-15	4/12/2007	0.63	1	0.32	1.0	µg/m³	R12438
Chlorobenzene	TO-15	4/12/2007	0.46	1	0.23	ND	µg/m³	R12438
Chloroethane	TO-15	4/12/2007	0.528	1	0.26	ND	µg/m³	R12438
Chloroform	TO-15	4/12/2007	0.488	1	0.24	ND	µg/m³	R12438
Chloromethane	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m³	R12438
cis-1,2-dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m³	R12438
cis-1,3-Dichloropropene	TO-15	4/12/2007	0.454	1	0.23	ND	µg/m³	R12438
Dibromochloromethane	TO-15	4/12/2007	0.852	1	0.43	ND	µg/m³	R12438
Dichlorodifluoromethane	TO-15	4/12/2007	0.5	1	0.25	4.4	µg/m³	R12438
Ethyl Acetate	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m³	R12438
Ethyl Benzene	TO-15	4/12/2007	0.334	1	0.17	ND	µg/m³	R12438
Freon 113	TO-15	4/12/2007	0.766	1	0.38	1.1	µg/m³	R12438
Hexachlorobutadiene	TO-15	4/12/2007	2.13	1	1.1	ND	µg/m³	R12438
Hexane	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m³	R12438
Isopropanol	TO-15	4/12/2007	0.41	1	0.21	1.8	µg/m³	R12438
m,p-Xylene	TO-15	4/12/2007	0.82	1	0.41	1.6	µg/m³	R12438

**Client Sample ID:** 1A-01  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 7:27:00 PM

**Lab Sample ID:** 0704041-004  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Methylene Chloride	TO-15	4/12/2007	0.361	1	0.18	ND	µg/m <sup>3</sup>	R12438
MTBE	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Naphthalene	TO-15	4/12/2007	0.524	1	0.26	ND	µg/m <sup>3</sup>	R12438
o-xylene	TO-15	4/12/2007	0.434	1	0.22	0.69	µg/m <sup>3</sup>	R12438
Styrene	TO-15	4/12/2007	0.426	1	0.21	ND	µg/m <sup>3</sup>	R12438
Tetrachloroethene	TO-15	4/12/2007	0.678	1	0.34	ND	µg/m <sup>3</sup>	R12438
Tetrahydrofuran	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
Toluene	TO-15	4/12/2007	0.38	1	0.19	1.9	µg/m <sup>3</sup>	R12438
trans-1,2-Dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
Trichloroethene	TO-15	4/12/2007	0.54	1	0.27	ND	µg/m <sup>3</sup>	R12438
Trichlorofluoromethane	TO-15	4/12/2007	0.5	1	0.25	18	µg/m <sup>3</sup>	R12438
Vinyl Acetate	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Vinyl Chloride	TO-15	4/12/2007	0.256	1	0.13	ND	µg/m <sup>3</sup>	R12438

**Report prepared for:** Jan Schutze  
Schutze & Associates Inc

**Date Received:** 4/10/2007  
**Date Reported:** 4/18/2007

**Client Sample ID:** 0A-01  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 7:29:00 PM

**Lab Sample ID:** 0704041-005  
**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Gasoline	TO-14(MOD)	4/17/2007	200	1	200	1010 x	µg/m <sup>3</sup>	R12440

Note: x-Although Gasoline is present, the results are elevated due to the presence of non-target hydrocarbons within the TPH as Gasoline quantitation range.

<b>Client Sample ID:</b> 0A-01	<b>Lab Sample ID:</b> 0704041-005
<b>Sample Location:</b> 5239 Telegraph	<b>Date Prepared:</b>
<b>Sample Matrix:</b> AIR	
<b>Date/Time Sampled</b> 4/10/2007 7:29:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	4/12/2007	0.4	1	0.20	ND	µg/m³	R12438
1,1,1,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m³	R12438
1,1,1-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m³	R12438
1,1,2,2-Tetrachloroethane	TO-15	4/12/2007	0.69	1	0.34	ND	µg/m³	R12438
1,1,2-Trichloroethane	TO-15	4/12/2007	0.546	1	0.27	ND	µg/m³	R12438
1,1-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
1,2,4-Trichlorobenzene	TO-15	4/12/2007	0.712	1	0.36	ND	µg/m³	R12438
1,2,4-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	0.76	µg/m³	R12438
1,2-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,2-Dichloroethane	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
1,2-Dichloropropane	TO-15	4/12/2007	0.693	1	0.35	ND	µg/m³	R12438
1,3,5-Trimethylbenzene	TO-15	4/12/2007	0.492	1	0.25	0.44	µg/m³	R12438
1,3-Butadiene	TO-15	4/12/2007	0.22	1	0.11	ND	µg/m³	R12438
1,3-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,4-Dichlorobenzene	TO-15	4/12/2007	0.6	1	0.30	ND	µg/m³	R12438
1,4-Dioxane	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m³	R12438
2-Butanone (MEK)	TO-15	4/12/2007	0.3	1	0.15	2.9	µg/m³	R12438
2-Hexanone	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
4-Ethyl Toluene	TO-15	4/12/2007	0.492	1	0.25	0.44	µg/m³	R12438
4-Methyl-2-Pentanone (MIBK)	TO-15	4/12/2007	0.41	1	0.21	ND	µg/m³	R12438
Acetone	TO-15	4/12/2007	0.238	1	0.12	14	µg/m³	R12438
Benzene	TO-15	4/12/2007	0.32	1	0.16	0.89	µg/m³	R12438
Benzyl Chloride	TO-15	4/12/2007	0.58	1	0.29	ND	µg/m³	R12438
Bromodichloromethane	TO-15	4/12/2007	0.67	1	0.34	ND	µg/m³	R12438
Bromoform	TO-15	4/12/2007	1.034	1	0.52	ND	µg/m³	R12438
Bromomethane	TO-15	4/12/2007	0.388	1	0.19	1.0	µg/m³	R12438
Carbon Disulfide	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m³	R12438
Carbon Tetrachloride	TO-15	4/12/2007	0.63	1	0.32	1.0	µg/m³	R12438
Chlorobenzene	TO-15	4/12/2007	0.46	1	0.23	ND	µg/m³	R12438
Chloroethane	TO-15	4/12/2007	0.528	1	0.26	ND	µg/m³	R12438
Chloroform	TO-15	4/12/2007	0.488	1	0.24	ND	µg/m³	R12438
Chloromethane	TO-15	4/12/2007	0.31	1	0.16	ND	µg/m³	R12438
cis-1,2-dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m³	R12438
cis-1,3-Dichloropropene	TO-15	4/12/2007	0.454	1	0.23	ND	µg/m³	R12438
Dibromochloromethane	TO-15	4/12/2007	0.852	1	0.43	ND	µg/m³	R12438
Dichlorodifluoromethane	TO-15	4/12/2007	0.5	1	0.25	1.9	µg/m³	R12438
Ethyl Acetate	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m³	R12438
Ethyl Benzene	TO-15	4/12/2007	0.334	1	0.17	ND	µg/m³	R12438
Freon 113	TO-15	4/12/2007	0.766	1	0.38	1.0	µg/m³	R12438
Hexachlorobutadiene	TO-15	4/12/2007	2.13	1	1.1	ND	µg/m³	R12438
Hexane	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m³	R12438
Isopropanol	TO-15	4/12/2007	0.41	1	0.21	1.8	µg/m³	R12438
m,p-Xylene	TO-15	4/12/2007	0.82	1	0.41	1.4	µg/m³	R12438



**Client Sample ID:** 0A-01  
**Sample Location:** 5239 Telegraph  
**Sample Matrix:** AIR  
**Date/Time Sampled** 4/10/2007 7:29:00 PM

**Lab Sample ID:** 0704041-005

**Date Prepared:**

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Methylene Chloride	TO-15	4/12/2007	0.361	1	0.18	ND	µg/m <sup>3</sup>	R12438
MTBE	TO-15	4/12/2007	0.36	1	0.18	ND	µg/m <sup>3</sup>	R12438
Naphthalene	TO-15	4/12/2007	0.524	1	0.26	ND	µg/m <sup>3</sup>	R12438
o-xylene	TO-15	4/12/2007	0.434	1	0.22	0.59	µg/m <sup>3</sup>	R12438
Styrene	TO-15	4/12/2007	0.426	1	0.21	ND	µg/m <sup>3</sup>	R12438
Tetrachloroethene	TO-15	4/12/2007	0.678	1	0.34	ND	µg/m <sup>3</sup>	R12438
Tetrahydrofuran	TO-15	4/12/2007	0.3	1	0.15	ND	µg/m <sup>3</sup>	R12438
Toluene	TO-15	4/12/2007	0.38	1	0.19	1.5	µg/m <sup>3</sup>	R12438
trans-1,2-Dichloroethene	TO-15	4/12/2007	0.396	1	0.20	ND	µg/m <sup>3</sup>	R12438
Trichloroethene	TO-15	4/12/2007	0.54	1	0.27	ND	µg/m <sup>3</sup>	R12438
Trichlorofluoromethane	TO-15	4/12/2007	0.5	1	0.25	1.3	µg/m <sup>3</sup>	R12438
Vinyl Acetate	TO-15	4/12/2007	0.352	1	0.18	ND	µg/m <sup>3</sup>	R12438
Vinyl Chloride	TO-15	4/12/2007	0.256	1	0.13	ND	µg/m <sup>3</sup>	R12438

**Definitions, legends and Notes**

<b>Note</b>	<b>Description</b>
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

**CLIENT:** Schutze & Associates Inc  
**Work Order:** 0704041  
**Project:** 5239

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R12438**

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/12/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/12/2007</b>	SeqNo: <b>183185</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1 - Dichloroethene	ND	0.40									
1,1,1,2-Tetrachloroethane	ND	0.69									
1,1,1-Trichloroethane	ND	0.55									
1,1,2,2-Tetrachloroethane	ND	0.69									
1,1,2-Trichloroethane	ND	0.55									
1,1-Dichloroethane	ND	0.41									
1,2,4-Trichlorobenzene	ND	0.71									
1,2,4-Trimethylbenzene	ND	0.49									
1,2-Dichlorobenzene	ND	0.60									
1,2-Dichloroethane	ND	0.41									
1,2-Dichloropropane	ND	0.69									
1,3,5-Trimethylbenzene	ND	0.49									
1,3-Butadiene	ND	0.22									
1,3-Dichlorobenzene	ND	0.60									
1,4-Dichlorobenzene	ND	0.60									
1,4-Dioxane	ND	0.36									
2-Butanone (MEK)	ND	0.30									
2-Hexanone	ND	0.41									
4-Ethyl Toluene	ND	0.49									
4-Methyl-2-Pentanone (MIBK)	ND	0.41									
Acetone	ND	0.24									
Benzene	ND	0.32									
Benzyl Chloride	ND	0.58									
Bromodichloromethane	ND	0.67									
Bromoform	ND	1.0									
Bromomethane	ND	0.39									
Carbon Disulfide	ND	0.31									
Carbon Tetrachloride	ND	0.63									
Chlorobenzene	ND	0.46									
Chloroethane	ND	0.53									

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to matrix inter R RPD outside accepted recovery limits 4 The MS/MSD RPD was out of control due to matrix inter S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result

**CLIENT:** Schutze & Associates Inc  
**Work Order:** 0704041  
**Project:** 5239

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R12438**

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/12/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/12/2007</b>	SeqNo: <b>183185</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.49									
Chloromethane	ND	0.31									
cis-1,2-dichloroethene	ND	0.40									
cis-1,3-Dichloropropene	ND	0.45									
Dibromochloromethane	ND	0.85									
Dichlorodifluoromethane	ND	0.50									
Ethyl Acetate	ND	0.36									
Ethyl Benzene	ND	0.33									
Freon 113	ND	0.77									
Hexachlorobutadiene	ND	2.1									
Hexane	ND	0.35									
Isopropanol	ND	0.41									
m,p-Xylene	ND	0.82									
Methylene Chloride	ND	0.36									
MTBE	ND	0.36									
Naphthalene	ND	0.52									
o-xylene	ND	0.43									
Styrene	ND	0.43									
Tetrachloroethene	ND	0.68									
Tetrahydrofuran	ND	0.30									
Toluene	ND	0.38									
trans-1,2-Dichloroethene	ND	0.40									
Trichloroethene	ND	0.54									
Trichlorofluoromethane	ND	0.50									
Vinyl Acetate	ND	0.35									
Vinyl Chloride	ND	0.26									
Surr: 4-Bromofluorobenzene	3.460	0	5	0	69.2	50	150				

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to matrix inter R RPD outside accepted recovery limits 4 The MS/MSD RPD was out of control due to matrix inter S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result

**CLIENT:** Schutze & Associates Inc  
**Work Order:** 0704041  
**Project:** 5239

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R12438**

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/11/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2007</b>	SeqNo: <b>183188</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	19.65	0.40	19.85	0	99.0	65	135				
1,1,1,2-Tetrachloroethane	32.98	0.69	34.35	0	96.0	65	135				
1,1,1-Trichloroethane	25.33	0.55	27.3	0	92.8	65	135				
1,1,2,2-Tetrachloroethane	32.36	0.69	34.35	0	94.2	65	135				
1,1,2-Trichloroethane	26.59	0.55	27.3	0	97.4	65	135				
1,1-Dichloroethane	19.68	0.41	20.25	0	97.2	65	135				
1,2,4-Trichlorobenzene	35.03	0.71	35.6	0	98.4	65	135				
1,2,4-Trimethylbenzene	23.57	0.49	24.6	0	95.8	65	135				
1,2-Dichlorobenzene	29.63	0.60	30.05	0	98.6	65	135				
1,2-Dichloroethane	20.57	0.41	20.25	0	102	65	135				
1,2-Dichloropropane	22.68	0.69	23.1	0	98.2	65	135				
1,3,5-Trimethylbenzene	22.78	0.49	24.6	0	92.6	65	135				
1,3-Butadiene	11.29	0.22	11.05	0	102	65	135				
1,3-Dichlorobenzene	29.93	0.60	30.05	0	99.6	65	135				
1,4-Dichlorobenzene	29.93	0.60	30.05	0	99.6	65	135				
1,4-Dioxane	17.35	0.36	18	0	96.4	65	135				
2-Butanone (MEK)	14.60	0.30	14.75	0	99.0	65	135				
2-Hexanone	20.30	0.41	20.5	0	99.0	65	135				
4-Ethyl Toluene	22.98	0.49	24.6	0	93.4	65	135				
4-Methyl-2-Pentanone (MIBK)	20.17	0.41	20.5	0	98.4	65	135				
Acetone	12.28	0.24	11.9	0	103	65	135				
Benzene	14.93	0.32	15.95	0	93.6	65	135				
Benzyl Chloride	27.77	0.58	28.75	0	96.6	65	135				
Bromodichloromethane	32.36	0.67	33.5	0	96.6	65	135				
Bromoform	48.29	1.0	51.7	0	93.4	65	135				
Bromomethane	18.66	0.39	19.4	0	96.2	65	135				
Carbon Disulfide	15.02	0.31	15.55	0	96.6	65	135				
Carbon Tetrachloride	28.81	0.63	31.45	0	91.6	65	135				
Chlorobenzene	22.68	0.46	23	0	98.6	65	135				
Chloroethane	12.78	0.53	13.2	0	96.8	65	135				
Chloroform	23.91	0.49	24.4	0	98.0	65	135				

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to matrix inter R RPD outside accepted recovery limits 4 The MS/MSD RPD was out of control due to matrix inter S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result

CLIENT: Schutze & Associates Inc  
 Work Order: 0704041  
 Project: 5239

## ANALYTICAL QC SUMMARY REPORT

BatchID: R12438

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/11/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/11/2007</b>	SeqNo: <b>183188</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	10.60	0.31	10.35	0	102	65	135				
cis-1,2-dichloroethene	19.17	0.40	19.8	0	96.8	65	135				
cis-1,3-Dichloropropene	21.29	0.45	22.7	0	93.8	65	135				
Dibromochloromethane	42.60	0.85	42.6	0	100	65	135				
Dichlorodifluoromethane	22.57	0.50	24.75	0	91.2	65	135				
Ethyl Acetate	18.11	0.36	18	0	101	65	135				
Ethyl Benzene	15.97	0.33	16.7	0	95.6	65	135				
Freon 113	36.77	0.77	38.3	0	96.0	65	135				
Hexachlorobutadiene	53.88	2.1	53.35	0	101	65	135				
Hexane	16.51	0.35	17.6	0	93.8	65	135				
Isopropanol	21.16	0.41	20.5	0	103	65	135				
m,p-Xylene	39.93	0.82	41	0	97.4	65	135				
Methylene Chloride	17.54	0.36	18.05	0	97.2	65	135				
MTBE	17.26	0.36	18.05	0	95.6	65	135				
Naphthalene	25.94	0.52	26.2	0	99.0	65	135				
o-xylene	20.92	0.43	21.7	0	96.4	65	135				
Styrene	20.83	0.43	21.3	0	97.8	65	135				
Tetrachloroethene	32.82	0.68	33.9	0	96.8	65	135				
Tetrahydrofuran	13.69	0.30	14.75	0	92.8	65	135				
Toluene	17.83	0.38	18.85	0	94.6	65	135				
trans-1,2-Dichloroethene	19.05	0.40	19.8	0	96.2	65	135				
Trichloroethene	25.61	0.54	26.85	0	95.4	65	135				
Trichlorofluoromethane	24.16	0.50	24.75	0	97.6	65	135				
Vinyl Acetate	17.60	0.35	17.6	0	100	65	135				
Vinyl Chloride	11.57	0.26	12.8	0	90.4	65	135				
Surr: 4-Bromofluorobenzene	4.960	0	5	0	99.2	50	150				

Sample ID: <b>LCS D</b>	SampType: <b>LCS D</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/12/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/12/2007</b>	SeqNo: <b>183189</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result  
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Schutze & Associates Inc  
 Work Order: 0704041  
 Project: 5239

## ANALYTICAL QC SUMMARY REPORT

BatchID: R12438

Sample ID: <b>LCS D</b>	SampType: <b>LCS D</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/12/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/12/2007</b>	SeqNo: <b>183189</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	15.84	0.40	19.85	0	79.8	65	135	19.65	21.5	30	
1,1,1,2-Tetrachloroethane	29.27	0.69	34.35	0	85.2	65	135	32.98	11.9	30	
1,1,1-Trichloroethane	21.84	0.55	27.3	0	80.0	65	135	25.33	14.8	30	
1,1,2,2-Tetrachloroethane	27.89	0.69	34.35	0	81.2	65	135	32.36	14.8	30	
1,1,2-Trichloroethane	22.33	0.55	27.3	0	81.8	65	135	26.59	17.4	30	
1,1-Dichloroethane	16.89	0.41	20.25	0	83.4	65	135	19.68	15.3	30	
1,2,4-Trichlorobenzene	29.12	0.71	35.6	0	81.8	65	135	35.03	18.4	30	
1,2,4-Trimethylbenzene	21.01	0.49	24.6	0	85.4	65	135	23.57	11.5	30	
1,2-Dichlorobenzene	24.64	0.60	30.05	0	82.0	65	135	29.63	18.4	30	
1,2-Dichloroethane	17.62	0.41	20.25	0	87.0	65	135	20.57	15.5	30	
1,2-Dichloropropane	19.40	0.69	23.1	0	84.0	65	135	22.68	15.6	30	
1,3,5-Trimethylbenzene	20.52	0.49	24.6	0	83.4	65	135	22.78	10.5	30	
1,3-Butadiene	9.481	0.22	11.05	0	85.8	65	135	11.29	17.4	30	
1,3-Dichlorobenzene	24.88	0.60	30.05	0	82.8	65	135	29.93	18.4	30	
1,4-Dichlorobenzene	24.88	0.60	30.05	0	82.8	65	135	29.93	18.4	30	
1,4-Dioxane	15.84	0.36	18	0	88.0	65	135	17.35	9.11	30	
2-Butanone (MEK)	12.18	0.30	14.75	0	82.6	65	135	14.6	18.1	30	
2-Hexanone	17.79	0.41	20.5	0	86.8	65	135	20.3	13.1	30	
4-Ethyl Toluene	20.52	0.49	24.6	0	83.4	65	135	22.98	11.3	30	
4-Methyl-2-Pentanone (MIBK)	17.42	0.41	20.5	0	85.0	65	135	20.17	14.6	30	
Acetone	11.66	0.24	11.9	0	98.0	65	135	12.28	5.17	30	
Benzene	12.57	0.32	15.95	0	78.8	65	135	14.93	17.2	30	
Benzyl Chloride	25.70	0.58	28.75	0	89.4	65	135	27.77	7.74	30	
Bromodichloromethane	27.80	0.67	33.5	0	83.0	65	135	32.36	15.1	30	
Bromoform	44.46	1.0	51.7	0	86.0	65	135	48.29	8.25	30	
Bromomethane	15.21	0.39	19.4	0	78.4	65	135	18.66	20.4	30	
Carbon Disulfide	12.94	0.31	15.55	0	83.2	65	135	15.02	14.9	30	
Carbon Tetrachloride	24.22	0.63	31.45	0	77.0	65	135	28.81	17.3	30	
Chlorobenzene	20.29	0.46	23	0	88.2	65	135	22.68	11.1	30	
Chloroethane	10.38	0.53	13.2	0	78.6	65	135	12.78	20.8	30	
Chloroform	19.76	0.49	24.4	0	81.0	65	135	23.91	19.0	30	

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to matrix inter R RPD outside accepted recovery limits 4 The MS/MSD RPD was out of control due to matrix inter S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result

**CLIENT:** Schutze & Associates Inc  
**Work Order:** 0704041  
**Project:** 5239

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R12438**

Sample ID: <b>LCS D</b>	SampType: <b>LCS D</b>	TestCode: <b>To-15 LL ug/</b>	Units: <b>µg/m³</b>	Prep Date: <b>4/12/2007</b>	RunNo: <b>12438</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12438</b>	TestNo: <b>TO-15</b>		Analysis Date: <b>4/12/2007</b>	SeqNo: <b>183189</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	7.638	0.31	10.35	0	73.8	65	135	10.6	32.5	30	
cis-1,2-dichloroethene	16.00	0.40	19.8	0	80.8	65	135	19.17	18.0	30	
cis-1,3-Dichloropropene	18.93	0.45	22.7	0	83.4	65	135	21.29	11.7	30	
Dibromochloromethane	38.25	0.85	42.6	0	89.8	65	135	42.6	10.7	30	
Dichlorodifluoromethane	18.07	0.50	24.75	0	73.0	65	135	22.57	22.2	30	
Ethyl Acetate	14.33	0.36	18	0	79.6	65	135	18.11	23.3	30	
Ethyl Benzene	14.09	0.33	16.7	0	84.4	65	135	15.97	12.4	30	
Freon 113	29.41	0.77	38.3	0	76.8	65	135	36.77	22.2	30	
Hexachlorobutadiene	42.04	2.1	53.35	0	78.8	65	135	53.88	24.7	30	
Hexane	14.22	0.35	17.6	0	80.8	65	135	16.51	14.9	30	
Isopropanol	17.79	0.41	20.5	0	86.8	65	135	21.16	17.3	30	
m,p-Xylene	35.71	0.82	41	0	87.1	65	135	39.93	11.2	30	
Methylene Chloride	14.76	0.36	18.05	0	81.8	65	135	17.54	17.2	30	
MTBE	14.69	0.36	18.05	0	81.4	65	135	17.26	16.0	30	
Naphthalene	21.59	0.52	26.2	0	82.4	65	135	25.94	18.3	30	
o-xylene	18.75	0.43	21.7	0	86.4	65	135	20.92	10.9	30	
Styrene	18.66	0.43	21.3	0	87.6	65	135	20.83	11.0	30	
Tetrachloroethene	29.43	0.68	33.9	0	86.8	65	135	32.82	10.9	30	
Tetrahydrofuran	11.62	0.30	14.75	0	78.8	65	135	13.69	16.3	30	
Toluene	15.53	0.38	18.85	0	82.4	65	135	17.83	13.8	30	
trans-1,2-Dichloroethene	16.12	0.40	19.8	0	81.4	65	135	19.05	16.7	30	
Trichloroethene	22.34	0.54	26.85	0	83.2	65	135	25.61	13.7	30	
Trichlorofluoromethane	19.45	0.50	24.75	0	78.6	65	135	24.16	21.6	30	
Vinyl Acetate	15.14	0.35	17.6	0	86.0	65	135	17.6	15.1	30	
Vinyl Chloride	9.677	0.26	12.8	0	75.6	65	135	11.57	17.8	30	
Surr: 4-Bromofluorobenzene	4.300	0	5	0	86.0	50	150	0	0	0	

**Qualifiers:** 3 Recovery of the MS and/or MSD was out of control due to matrix inter R RPD outside accepted recovery limits 4 The MS/MSD RPD was out of control due to matrix inter S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result



**CLIENT:** Schutze & Associates Inc  
**Work Order:** 0704041  
**Project:** 5239

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R12440**

Sample ID: <b>BLK-G</b>	SampType: <b>MBLK</b>	TestCode: <b>TO-14(Mod)</b>	Units: <b>µg/m³</b>	Prep Date:	RunNo: <b>12440</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12440</b>	TestNo: <b>TO-14(MOD)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>183409</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	35									
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Sample ID: <b>LCS-G</b>	SampType: <b>LCS</b>	TestCode: <b>TO-14(Mod)</b>	Units: <b>µg/m³</b>	Prep Date:	RunNo: <b>12440</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12440</b>	TestNo: <b>TO-14(MOD)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>183410</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	345.0	35	352	0	98.0	65	135				
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Sample ID: <b>LCSD-G</b>	SampType: <b>LCSD</b>	TestCode: <b>TO-14(Mod)</b>	Units: <b>µg/m³</b>	Prep Date:	RunNo: <b>12440</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R12440</b>	TestNo: <b>TO-14(MOD)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>183411</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	338.6	35	352	0	96.2	65	135	345	1.87	50	
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<b>Qualifiers:</b>	3 Recovery of the MS and/or MSD was out of control due to	4 The MS/MSD RPD was out of control due to matrix inter	Q Spike recovery and RPD control limits do not apply result
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

# CHAIN OF CUSTODY

LAB WORK ORDER NO

0704041

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: *Schutze & Associates, Inc.* Location of Sampling: *5239 Telegraph*  
 Address: *436-14th Street, Suite 1216, Oakland* Purpose:  
 City: *Oakland* State: *CA* Zip Code: *94612* Special Instructions / Comments:  
 Telephone: *510 625 8175* FAX: *510 625 8176* Please report to attached detection limits  
 REPORT TO: *Schutze* SAMPLER: *Schutze* P.O. #: EMAIL: *js@schutze-inc.com*

TURNAROUND TIME:

- 10 Work Days  3 Work Days  Noon - Nxt Day  
 7 Work Days  2 Work Days  2 - 8 Hours  
 5 Work Days  1 Work Day  Other

SAMPLE TYPE:

- Storm Water  Air  
 Waste Water  Other  
 Ground Water  
 Soil

REPORT FORMAT:

- QC Level IV  
 EDF  
 Excel / EDD

- EPA 8260B - Full List  
 EPA 8260B - 8010 List  
 THP gas  BTEX  
 Oxygenates  MTBE  
 THP Diesel  Si-Gel  
 Motor Oil  
 Pesticide - 8081  
 PCB - 8082  
 Metals  CAM - 17  
 LUFT 5  7 Metals  
 8270 Full List  
 PAHs Only

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	EPA 8260B - Full List	EPA 8260B - 8010 List	THP gas	BTEX	Oxygenates	MTBE	THP Diesel	Si-Gel	Motor Oil	Pesticide - 8081	PCB - 8082	Metals CAM - 17	LUFT 5	7 Metals	8270 Full List	PAHs Only	REMARKS
	SB-1	4/10/07 9:33-9:52	SG	1	Seal			X	X	X	X											-001A
	SB-2	8:30-9:15	SG	1	Seal			X	X	X	X											-002A
	SB-3	9:58-10:30	SG	1	"			X	X	X	X											-003A
	IA-01	10:57-7:27	IA	1	"			X	X	X	X											-004A
	OA-01	11:03-7:29	OA	1	"			X	X	X	X											-005A

TORRENT LAB

1 Relinquished By: *[Signature]* Print: Date: *4/10/07* Time: *20:30* Received By: *[Signature]* Print: *Hemant Anil* Date: *4/10/07* Time: *20:40*  
 2 Relinquished By: Print: Date: Time: Received By: Print: Date: Time:

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page of  
 Log In By: *[Signature]* Date: *4/12* Log In Reviewed By: Date:

**Appendix B**  
**Drilling 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: 04/06/2007 By jamesy**

**Permit Numbers: W2007-0511**  
**Permits Valid from 04/10/2007 to 04/10/2007**

**Application Id:** 1175815773544  
**Site Location:** Vacant Restaurant  
5239 Telegraph Avenue  
Oakland, CA 94612

**City of Project Site:** Oakland

**Project Start Date:**

04/10/2007

**Completion Date:** 04/10/2007

**Applicant:** SCHUTZE & Associates, Inc. - Jan Schutze  
436 - 14th Street, Suite 1216, Oakland, CA 94609  
**Property Owner:** Ray Marino  
5107 Indian Island Road, Weed, CA 96094  
**Client:** \*\* same as Property Owner \*\*  
**Contact:** Jan Schutze

**Phone:** 510-625-8175

**Phone:** 530-938-2777

**Phone:** 510-625-8176  
**Cell:** 415-517-8100

	<b>Total Due:</b>	\$200.00
<b>Receipt Number: WR2007-0156</b>	<b>Total Amount Paid:</b>	\$200.00
<b>Payer Name : Jan Schutze/Schutze &amp; Assoc</b>	<b>Paid By: VISA</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 3 Boreholes  
Driller: Environmental Control Associates, Inc. - Lic #: 695970 - Method: DP

**Work Total: \$200.00**

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0511	04/06/2007	07/09/2007	3	2.00 in.	15.00 ft

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. 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.
5. 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.
6. No Inspector Assigned to this site.