Report: Summary of Previous Investigations, Installation and Sampling of Four Monitoring Wells, and Excavation of Test Pits, Soil Testing and Limited Soil Removal

2700 23rd Avenue
Oakland, Alameda County, California

Prepared for:

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SCS370.3
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Subject: Report:

- **Summary of Previous Investigations,**
- **Installation and Sampling of Four Monitoring Wells, and**
- **Excavation of Test Pits, Soil Testing and Limited Soil Removal**

Dear Mr. Moore and AFM Griffin:

SCHUTZE & Associates, Inc. is pleased to submit this Report regarding the installation of four groundwater monitoring wells at the above-referenced property (subject site). The scope of work also included the excavation of test pits and soil testing, with removal of piping and limited soil removal.

The groundwater monitoring wells were installed to investigate hydrocarbon contamination identified in shallow, perched groundwater at the site. Based on the initial subsurface investigation, the shallow, perched groundwater was likely contaminated by hydrocarbon-impacted soil resulting from a gasoline service station formerly located at the subject property.

The purpose of the test pit excavation was to investigate the vertical and lateral extent of the hydrocarbon contamination identified in soil during the initial subsurface investigation at the site, as well as to remove and properly dispose of piping and hydrocarbon-impacted soil encountered during the test pitting procedure.

Mr. Jan Schutze, a Professional Geologist (P.G.), performed the environmental consulting services and project supervision.

A. BACKGROUND / PREVIOUS ENVIRONMENTAL INVESTIGATIONS

SCHUTZE & Associates, Inc. reviewed a summary of a Local Regulatory Agency File Review of the subject site prepared by Basics Environmental, Inc. (Basics).[1] 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.

SCHUTZE & Associates, Inc. visited the offices of the Oakland Building Department (OBD) on March 9, 2011 to review available records on file for the subject site. A building permit application had been submitted in 1936 to construct an "automobile lift shelter" at the subject site address. Associated Oil Co. was listed on the permit application as "Owner" (a copy of the building permit application is attached to this report as Appendix A). In 1964, a permit was issued to demolish a "service station building" at the subject site address. A building permit was filed in 1968 for the construction of the current building, a liquor store.

According to Basics, a note on the building plans for the liquor store refers 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 did not include confirmation that the tank removal was completed.

A.1 Initial Subsurface Investigation

SCHUTZE & Associates, Inc. performed a Subsurface Investigation at the subject site (Figure 1) on July 29, 2010.[2] Four soil borings were advanced in the asphalt-paved parking area. Soil and groundwater samples were collected from each boring and analyzed. Four additional soil borings were advanced to depths of 5 feet below ground surface (ft bgs) in order to collect soil vapor samples.

The following conclusions were based on the laboratory results:

- Soil at the south portion of the parking area has been impacted by TPH-g[3] (up to 420 mg/kg[4]), TPH-d[5] (up to 710 mg/kg) and TPH-mo[6] (up to 1,500 mg/kg).
- Groundwater at the site (approximately 15 ft bgs) has been impacted by TPH-g (up to 61,000 µg/L[7]), TPH-d (up to 36,000 µg/L), TPH-mo (up to 60,000 µg/L) and naphthalene (up to 200 µg/L).
- Soil vapor at the south central portion of the parking area has been impacted by ethylbenzene (8,100 µg/m^3[8]) and naphthalene (850 µg/m^3).

TPH-g, TPH-d, TPH-mo, naphthalene and ethylbenzene were detected at the subject

[1] Basics Environmental, Inc., *Local Regulatory Agency File Review, 2700 23rd Avenue, Oakland, CA*, May 7, 2010
[2] SCHUTZE & Associates, Inc., *Report: Phase II Subsurface Investigation, 2700 23rd Avenue, Oakland, Alameda County California*, August 24, 2010
[3] Total petroleum hydrocarbons as gasoline
[4] Milligrams per kilogram
[5] Total petroleum hydrocarbons as diesel
[6] Total petroleum hydrocarbons as motor oil
[7] Micrograms per liter
[8] Micrograms per cubic meter

site above the corresponding Environmental Screening Levels (ESLs) of the San Francisco Bay Area Regional Water Quality Control Board (RWQCB). The likely sources of the contamination were former leaking underground storage tanks (USTs) and/or associated product lines.

Based on the results of the soil, groundwater and soil vapor survey, SCHUTZE & Associates, Inc. recommended further investigation of the subject property, including 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 existed in the subsurface at the site.

A.2 Geophysical Survey

SCHUTZE & Associates, Inc. completed a subsurface geophysical survey at the subject site on August 27, 2010.[9] The purpose of the geophysical survey was to locate subsurface structures, such as potentially existing USTs and associated product lines. The geophysical methods utilized included electromagnetic line location/metal detection (EMLL/MD), a vertical magnetic gradient (VMG) survey and ground penetrating radar (GPR).

The geophysical survey was performed in the area of the asphalt-paved parking lot west of the building (Ed's Liquors) at the subject site. The concrete-paved area south of the building and portions of the sidewalks bordering the site along 23rd Avenue and East 27th Street were included in the survey area.

Based on interpretation of the geophysical data and instrument responses in the field, evidence was not found for an intact UST within the designated survey area. However, a localized metal detector anomaly was detected approximately 10 feet west of the southwest corner of the Ed's Liquors building. It was possible that the anomaly was buried metal debris or the remnants of a small, crushed UST.

An undifferentiated metallic utility line was observed at the central portion of the property using the VMG method. The utility line was likely cut off at both ends and did not appear to lead to any currently existing structures or to the street. The southern terminus of the utility line appeared to end at what was assumed to be the approximate location of the pump islands for the former gasoline service station.

A.3 Recommendations

After completion of the initial subsurface investigation and the geophysical survey, SCHUTZE & Associates, Inc. recommended:

- Determining the vertical and lateral extent of the soil and groundwater contamination in order to evaluate remediation strategies. The first phase of this investigation would be the installation of four groundwater monitoring wells.
- Excavating a series of test pits at the location of the potentially existing former product line and at the location of the metal anomaly discovered at the south

[9] SCHUTZE & Associates, Inc., *Geophysical Survey Report, 2700 23rd Avenue, Oakland, Alameda County, California*, October 7, 2010

portion of the parking area, an area which coincided with high TPH[10] and naphthalene concentrations detected at the site during the subsurface investigation.

B. SUBSURFACE CONDITIONS AND GEOLOGY

B.1 Topography

The subject site is situated in the lower portion of the East Bay 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 general vicinity of the subject site slopes to the southwest, towards Brooklyn Basin, which flows into San Francisco Bay.[11]

B.2 Geology

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. A geologic depression exists at the approximate central portion of this geologic province and contains San Francisco Bay and the south-adjacent Santa Clara Valley. This geologic depression appears to have formed during the Pleistocene Epoch (approximately 1.8 million to 10,000 years ago), and has been flooded several times during geological history due to glacial cycles. The depression is bordered to the west by the San Andreas Fault and to the east by the Hayward Fault.[12] The subject site is located in the lower East Bay Hills, west of the Hayward Fault.

The subsurface at the subject site is mapped as alluvium[13] deposited during the Quaternary Period (approximately 2.5 million years ago to the present).[14] Subsurface deposits encountered at the subject site consisted of approximately three feet of sandy/silty/gravelly fill material, underlain by a minimum of 22 feet of tight, dry (or slightly moist) silty-clays.

B.3 Groundwater

Confined groundwater was encountered in a thin, sandy lens at approximately 15 ft bgs. The lens appears to be continuous across the site. Based on groundwater elevation data collected by SCHUTZE & Associates, Inc., groundwater was calculated as flowing to the southwest with a gradient of 0.125 ft/ft. The calculated flow direction was consistent with the topographic gradient. Contamination was observed to a depth of approximately 20 ft bgs. Deeper groundwater has not been investigated.

[10] Total petroleum hydrocarbons
[11] USGS, Oakland East, California 15' Quadrangle Topographic Map, 1997
[12] Robert M. Norris and Robert W. Webb, *Geology of California, 2nd Edition*, 1990
[13] Alluvium is a term that refers to unconsolidated sediment deposited by an unspecified hydrogeologic process
[14] Wagner, D.L., Bortugno, E.J. and McJunkin, R.D., Geologic Map of the San Francisco-San Jose Quadrangle, California, 1991, scale 1:250,000; California Division of Mines and Geology, Regional Geologic Map 5A, scale 1:250,000

C. SUMMARY OF SCOPE OF SERVICES

C.1 Installation of Four Groundwater Monitoring Wells

SCHUTZE & Associates, Inc. has completed the following services:

- Prepared a site-specific Health and Safety Plan prior to initiating the fieldwork.
- Submitted a site plan, work plan, drilling contractor's credentials and permit application to the Alameda County Public Works Agency (ACPWA). The Well Permit is attached as Appendix F.
- Submitted a site map and work plan to the City of Oakland Fire Department (OFD).
- Marked the proposed well locations. Subsequently, Underground Services Alert (USA) was contacted to clear the proposed monitoring well locations for underground utilities.
- Drilled four borings at the marked locations to a depth 20 ft bgs using a drill rig equipped with an eight-inch hollow-stem auger.
- Performed continuous soil logging as the auger ejected the drill cuttings.
- Collected soil samples at 5-ft intervals using a split-spoon sampler and submitted four soil samples per boring for laboratory analyses. The samples were stored on ice and transported to a California Department of Public Health (CDPH)-certified laboratory using chain-of-custody procedures.
- Submitted sixteen soil samples to be analyzed as follows:
    - TPH-g,-d and -mo (USEPA[15] Method 8015B/m), all samples;
    - VOCs[16] (Full Scan, USEPA Method 8260B), seven samples
    - PNAs[17] (USEPA Method 8270C), one sample; and
    - LUFT 5 Metals[18] (USEPA Method 6010B), all samples.
- Field-screened soil collected from the split-spoon sampler at 5-ft intervals using a Photo Ionization Detector (PID).
- Converted the borings into groundwater monitoring wells as described in Table 1 (see Section D.2). The monitoring well locations are shown on the attached Figures 2 and 3. The well construction was in general compliance with the standards contained in the Department of Water Bulletins 74-81 and 74-90 and the reporting provisions of Section 13750 and 13755 of the California Water Code.

[15] U.S. Environmental Protection Agency
[16] Volatile organic compound(s)
[17] Polynuclear aromatic hydrocarbon(s)
[18] Leaking Underground Fuel Tank (LUFT) 5 Metals are commonly associated with LUFTs and include cadmium, chromium, lead, nickel and zinc.

- Installed traffic-rated street covers and lockable well caps.
- Refinished the surface around each monitoring well.
- Stored potential investigation-derived wastes in 55-gallon Department of Transportation (DOT)-approved drums to be properly disposed of based on analytical results.
- Contracted with a licensed surveyor to survey the four newly installed wells.

C.2 Groundwater Sampling and Analysis

SCHUTZE & Associates, Inc. conducted the following:

- Measured the depth to groundwater in each well to within 0.01 ft.
- Purged a minimum of three well volumes from the wells and collected corresponding water quality parameters (temperature, pH, TDS[19], electrical conductance and dissolved oxygen).
- Drummed the purge water in DOT-approved 55-gallon drums and stored on-site in a fenced and locked area pending characterization.
- Allowed the wells to recharge for approximately 24 hours and collected one groundwater sample from each well using a disposable bailer (not all of the wells recharged to the recommended 80% of the well volume prior to purging). The samples were stored on ice in a cooler.
- Submitted four groundwater samples to a CDPH-certified laboratory to be analyzed as follows:
    - TPH-g,-d and -mo (USEPA Method 8015B/m), all samples;
    - VOCs (Full Scan, USEPA Method 8260B), all samples; and
    - Lead (USEPA Method E200.8), one sample.

C.3 Excavation of Test Pits, Soil Testing and Limited Soil Removal

SCHUTZE & Associates, Inc. marked two areas for test pitting, based on the results of the August 27, 2010 geophysical survey. One area was likely the location of buried concrete and metal debris; the other appeared to contain abandoned piping. The test pitting consisted of the following tasks:

- Prepared a site-specific Health and Safety Plan prior to initiating the fieldwork.
- Submitted a site plan, work plan, contractor's credentials and permit application to applicable agencies.
- Coordinated the work with the lead agency.
- Marked the proposed test pit excavation areas. Subsequently, USA was

[19] Total dissolved solids

contacted to clear the proposed test pit locations for underground utilities. The test pit excavation areas are shown on the attached Figures 3 and 4.

- Provided all necessary equipment and materials to perform the required services, including soil excavation equipment.
- Excavated test pits, using a backhoe, in areas where the geophysical survey had identified subterranean objects and impacted soil had been identified. Excavated soil was removed and placed in a lined dumpster.
- Removed debris and piping from the test pits. Collected thirteen soil samples from the pit walls and bottoms, including from beneath the piping and debris.
- Submitted all thirteen soil samples from the pit walls and bottoms to a CDPH-certified laboratory to be analyzed for the following:
    - TPH-g, -d and –mo (USEPA Method 8015B/m);
    - VOCs (Full Scan, USEPA Method 8260B); and/or
    - LUFT 5 Metals (USEPA Method 6010B).
- Backfilled the excavated areas with clean fill material.
- Compacted the fill material (no compaction certificate).
- Disposed of the excavated soil as non-hazardous (based on soil analytical results). No contamination was observed in the excavated material.
- Re-paved the affected areas of the parking lot.

D. GROUNDWATER MONITORING WELL INSTALLATION

D.1 Pre-Field Activities

SCHUTZE & Associates, Inc. obtained a Well Permit from the ACPWA. The permit numbers for this task were W2010-0754 to W2010-0757 (one for each well). The Well Permit is attached as Appendix F. The ACPWA was informed of the drilling/excavation dates and site location.

On October 22, 2010, SCHUTZE & Associates, Inc. marked the boring locations with white spray paint. Prior to drilling, USA was contacted to clear the proposed boring locations for utilities. The ticket number provided by USA for this procedure was #321027.

The monitoring wells were installed on October 27, 2010, and developed and sampled on November 18, 2010. A health and safety meeting was held before commencing fieldwork.

D.2 Drilling Procedure

Drilling operations were conducted on October 27, 2010 by Exploration Geoservices,

Inc., a California C-57 licensed driller (#484288). Four borings were advanced to 20 ft bgs using a truck-mounted, 6-inch-diameter, hollow-stem auger rig. The soil cuttings were stored on-site pending analysis. The monitoring well construction details are presented in Table 1 and the well locations are depicted on Figures 2 and 3. The well logs are attached as Appendix C.

TABLE 1
Well Construction Data
2700 23rd Avenue, Oakland, California

Monitoring Well ID	Location	Material	Total Depth (ft bgs)	Screened Intervals (ft bgs)	Annular Space
MW-1	Central-south parking lot; near TPH-contaminated soil and groundwater discovered during initial subsurface investigation.	Two-inch O.D. schedule 40 PVC casings	20	10 - 20	Monterey 2/12 sand from base to 8 ft bgs; hydrated bentonite from 8-5 ft bgs; Portland neat cement from 5 ft bgs to surface.
MW-2	Center parking lot; near TPH-impacted shallow, perched groundwater discovered during initial subsurface investigation.		20	10 - 20	
MW-3	Southeast property at concrete-paved area; potentially down-gradient; to be used for determining groundwater flow direction.		20	10 - 20	
MW-4	Southwest property at concrete sidewalk; assumed down-gradient.		20	10 - 20	

ft bgs = feet below ground surface

D.3 Soil Logging and Soil Sampling Methodology

During the well drilling process, SCHUTZE & Associates, Inc. collected soil samples at 5-ft intervals using a split-spoon sampler containing three six inches long, two-inch-diameter brass sleeves. Each brass sleeve was unused and taken from the original packaging.

One of the brass sleeves from each sampling location was sealed at each end with Teflon septa and tight-fitting plastic caps and delivered to the laboratory for analysis. Soil from the remaining brass sleeves was used for logging purposes and to collect PID readings. Well logs were generated based on the soil recovered in the brass sleeves and the well construction data, and are included in this report as Appendix C.

D.4 Photo Ionization Detector (PID) Readings

A hand-held PID was used during the investigation in order to screen for VOCs 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. PID readings are tabulated in Table 2.

The highest PID reading collected during the well installation was 1,100 parts per million (ppm) in MW-4 at 3.5 ft bgs. The PID readings decreased with depth and a reading of 9.1 ppm was recorded from soil collected at 18.5 ft bgs. Soil from the bottom of boring MW-4 appeared to be relatively un-impacted. The VOC concentrations detected by the PID appeared to be from potential hydrocarbon contamination. No significant PID readings were collected during the installation of MW-1 and MW-2. A slightly elevated reading was detected from soil collected from boring MW-3 at 8.5 ft bgs.

TABLE 2
PID Readings (ppm)
2700 23rd Avenue, Oakland, California

Ft bgs	MW-1	MW-2	MW-3	MW-4
Ambient	0.1 - 0.3			
3.5	0.8	0.5	0.3	**1,100**
8.5	0.5	0.6	18.9	58.1
13.5	0.3	1.7	2.3	24.3
18.5	0.3	0.7	2.0	9.1

PID = photo ionization detector; ppm = parts per million; ft bgs = feet below ground surface. Values indicate the highest PID reading observed per five-foot interval.

D.5 Soil Sample Submittal

Samples were stored on ice in a cooler and subsequently delivered to McCampbell Analytical, Inc. (CDPH ELAP[20] #1644) following standard chain-of-custody procedures. Holding times were observed. Four soil samples from each boring were submitted and analyzed for TPH-g, -d, -mo and LUFT 5 Metals. Seven of the sixteen samples submitted were analyzed for VOCs (including MTBE[21] and BTEX[22]), and one of the samples was analyzed for PNAs. Samples were selected for VOC analysis based on PID readings. The soil sample from which the highest PID reading was collected was analyzed for PNAs.

D.6 Soil Analytical Results (Well Installation)

Soil analytical results are tabulated in Table 3. The complete laboratory report is attached as Appendix B. Soil analytical results were compared to the California RWQCB ESLs for shallow soil at commercial sites where groundwater is not a potential drinking source (Table B-2).

[20] California Department of Public Health Environmental Laboratory Accreditation Program
[21] Methyl tert-butyl ether
[22] Benzene, toluene, ethylbenzene and xylenes

TABLE 3
Soil Analytical Results (reported in mg/kg)
2700 23rd Avenue, Oakland, California

Monitoring Well ID	Sample Date	Sample Depth (ft bgs)	TPH-g	TPH-d	TPH-mo	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl tert-butyl ether	Naphthalene
MW-1	10.27.10	3.5	ND<1.0	ND<1.0	ND<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		8.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		13.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		18.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
MW-2		3.5	ND<1.0	5.1	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		8.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		13.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		18.5	ND<1.0	1.2	ND<5.0	--	--	--	--	--	--
MW-3		3.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		8.5	**200**	27	ND<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
		13.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
		18.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
MW-4		3.5	**1,400**	**220**	16	<0.50	<0.50	1.1	0.96	<0.50	<0.50
		8.5	**270**	18	ND<5.0	<0.20	<0.20	0.61	1.4	<0.2	0.27
		13.5	ND<1.0	ND<1.0	ND<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		18.5	ND<1.0	ND<1.0	ND<5.0	--	--	--	--	--	--
ESLs			**180**	**180**	**2,500**	**0.27**	**9.3**	**4.7**	**11**	**8.4**	**2.8**

mg/kg = milligrams per kilogram; TPH-g/-d/-mo = Total petroleum hydrocarbons as gasoline-range, diesel-range, and motor oil-range; ND<50 = non-detect with a reporting limit of 50; ESLs = Environmental Screening Levels of the San Francisco Bay Area Regional Water Quality Control Board (Table B-2 [shallow soil, commercial/industrial land use, groundwater is not a current or potential drinking water resource]).

TPH-g: In MW-4, TPH-g concentrations detected at 3.5 and 8.5 ft bgs were 1,400 and 270 mg/kg, respectively, which exceeded the corresponding ESL of 180 mg/kg. TPH-g was also detected in MW-3 at 8.5 ft bgs at a concentration of 200 mg/kg.

TPH-d and TPH-mo: TPH-d and TPH-mo were detected in MW-4 at 3.5 ft bgs at concentrations of 220 and 16 mg/kg. The ESLs for these compounds are 180 and 2,500 mg/kg, respectively. Negligible TPH-d and TPH-mo concentrations were detected in other soil samples.

BTEX: Benzene and toluene were not detected in the samples above the reporting limit. Ethylbenzene and xylenes were detected in MW-4 at concentrations of up to 1.1 and 1.4 mg/kg, which was less than the respective corresponding ESLs of 4.7 and 11 mg/kg.

MTBE: MTBE was not detected in the samples above the reporting limit.

Naphthalene: This compound was detected in MW-4 at 8.5 ft bgs at a concentration of 0.27 mg/kg, which is less than the corresponding ESL of 2.8 mg/kg.

D.7 Well Development

SCHUTZE & Associates, Inc. developed the wells on November 18, 2010. The purpose of developing wells is to create, usually by extended purging, a well graded sediment pack within and around the annular well spaces. The well development was limited by the low-yield of the narrow groundwater-producing horizon. The development water was stored on-site in 55-gallon DOT-certified drums pending analyses.

D.8 Well Survey

On December 20, 2010, the top of the well casings and the latitude and longitude of the well locations were surveyed by Ty Hawkins, a Licensed Surveyor (LS 7973) registered in the state of California. The survey was performed in accordance with the requirements of GeoTracker data entry. The accuracy of the elevation measurements was to one hundredth of a foot based on the NAVD 88 Datum. Latitude and longitude were measured with an accuracy of one millionth of a degree based on the NAD 83 Datum. The survey map by Ty Hawkins is attached to this report as Appendix D. The latitude, longitude and elevations are listed in Table 4. After the well locations were surveyed, Well Completion Reports were submitted to the ACPWA.

TABLE 4
Well Survey Data
2700 23rd Avenue, Oakland, California

Well Number	Latitude	Longitude	TOC Elevation (ft above msl)
MW-1	37.7936166	-122.2264944	168.84
MW-2	37.7937027	-122.2265138	170.33
MW-3	37.7935888	-122.2263777	168.67
MW-4	37.7935833	-122.2265444	168.40

TOC = top of casing; msl = mean sea level; Latitude and longitude are presented in degrees (decimals).

E. GROUNDWATER SAMPLING (INITIAL MONITORING EVENT)

E.1 Depths-to-Groundwater, Flow Direction and Gradient Calculation

Prior to sampling the groundwater monitoring wells, the depth-to-groundwater measurements were collected in order to calculate the flow direction and gradient via triangulation. The depth-to-groundwater measurements were measured from the

surveyed TOC[23] using a flat tape, water-leveled meter (Solinst model 101) with a stainless steel sounding probe (see Table 5 for depth-to-groundwater measurements).

Based on the measurements, groundwater at the site during this sampling event flowed to the southwest with a gradient of 0.125 ft/ft.

TABLE 5
Groundwater Elevations
2700 23rd Avenue, Oakland, California

Well Number	Sample Date	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above msl)
MW-1	11.18.10	7.93	160.91
MW-2		7.52	162.81
MW-3		5.14	163.63
MW-4		--*	--

TOC = top of casing; msl = mean sea level.
*The static groundwater level was not measured prior to purging MW-4.

E.2 Well Purging and Groundwater Field Parameters

Prior to sampling, a minimum of three well volumes were purged from each well. A portable multi-tester (Horiba U-22) was used during the well purging to measure pH, conductivity, dissolved oxygen, temperature, TDS and oxidation-reduction potential. Field data sheets are attached as Appendix E. The following data were collected (Table 6):

TABLE 6
Field Measurements – Groundwater Samples
2700 23rd Avenue, Oakland, California

Well Number	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (°Celsius)	Total Dissolved Solids (g/L)	ORP (mV)
MW-1	11/17/10	6.86	0.25	7.1	23.0	1.6	+297
MW-2		6.08	0.29	7.0	22.6	1.8	+287
MW-3		6.34	42	8.5	21.9	0.27	+28
MW-4		6.61	0.31	6.1	22.7	1.9	+123

mS/cm = millisiemens per centimeter; mg/L = milligrams per liter; g/L = grams per liter; ORP = oxidation-reduction potential; mV = millivolt

E.3 Groundwater Sampling Methodology and Sample Submittal

In order to allow the monitoring wells to recharge, the samples were collected on the day following the well purging procedure. After approximately 24 hours, not all wells recharged to the recommended 80% of the initial volume prior to purging. The samples

[23] Top of casing

were collected using new, disposable plastic bailers and placed in one-liter amber jars and 40-milliliter volatile organics analyses (VOA) containers, both of which were preserved with hydrochloric acid.

The samples were stored on ice in a cooler and subsequently transported to the laboratory for analyses following standard chain-of-custody procedures. Holding times were observed.

E.4 Groundwater Analytical Results

Groundwater analytical results are tabulated in Table 7. The complete laboratory report is attached as Appendix B. Groundwater analytical results were compared to California RWQCB ESLs for groundwater that is not a source of drinking water.[24]

TABLE 7
Groundwater Analytical Results (reported in µg/L)
2700 23rd Avenue, Oakland, California

Monitoring Well ID	Date Sampled	TPH-g	TPH-d	TPH-mo	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl tert-butyl ether	Naphthalene
MW-1	11.18.10	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5
MW-2		ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-3		**3,700**	**2,100**	ND<250	ND<0.5	ND<0.5	ND<0.5	0.84	ND<0.5	ND<0.5
MW-4		**26,000**	**2,800**	ND<250	**2,800**	**1,500**	**550**	**3,100**	ND<50	**210**
ESLs		**210**	**210**	**210**	**46**	**130**	**43**	**100**	**1,800**	**24**

µg/L = micrograms per liter; TPH-g/-d/-mo = Total petroleum hydrocarbons as gasoline-range, diesel-range, and motor oil-range; ND<50 = non-detect with a reporting limit of 50; ESLs = Environmental Screening Levels of the San Francisco Bay Area Regional Water Quality Control Board (Table F-1b: Groundwater Screening Levels [groundwater is not a current or potential drinking water resource]).

TPH-g: TPH-g was detected in MW-4 and MW-3 at respective concentrations of 26,000 and 3,700 µg/L, both of which exceeded the corresponding ESL of 210 µg/L. TPH-g was not detected above the reporting limit in MW-1 and MW-2.

TPH-d: TPH-d was detected in MW-4 and MW-3 at respective concentrations of 2,800 and 2,100 µg/L, both of which exceeded the corresponding ESL of 210 µg/L. TPH-d was not detected above the reporting limit in MW-1 and MW-2.

TPH-mo: TPH-mo was not detected above the reporting limit during this sampling event.

BTEX: Benzene, toluene, ethylbenzene and xylenes were detected in MW-4 at concentrations of 2,800, 1,500, 550 and 3,100 µg/L, respectively. These concentrations

[24] Regional Water Quality Control Board ESL Table F1-b

exceeded the corresponding ESLs for BTEX of 46, 130, 43 and 100 µg/L, respectively. BTEX compounds were not detected in MW-2, MW-3 or MW-4 above the corresponding reporting limits, with the exception of xylenes, which were detected in MW-3 at a negligible concentration of 0.84 µg/L.

MTBE: MTBE was detected only in MW-1, at a negligible concentration of 1.3 µg/L.

Naphthalene: Naphthalene was detected only in MW-4, at a concentration of 210 µg/L, which exceeded the corresponding ESL of 24 µg/L.

F. EXCAVATION OF TEST PITS / SOIL TESTING / LIMITED SOIL REMOVAL

F.1 Excavation of Test Pits / Soil Removal and Disposal

On November 29-30, 2010, two test pits were excavated at the location of subsurface anomalies detected during a subsurface geophysical survey at the subject site on August 27, 2010. The locations of the test pits are depicted on Figures 3 and 4. The test pit located at the southeast portion of the parking lot is also shown on Figure 6 (Cross Section: B-B').

Southeast Parking Lot: At the southeast area of the parking lot, a pit was excavated measuring approximately six ft by four ft and extending to approximately 5.5 ft bgs. Miscellaneous debris and what appeared to be portions of the former pump islands were observed in the pit. The debris and excavated soil were stored on-site in a soil bin lined with visqueen.

A hand-held PID was used during the investigation in order to screen for VOCs potentially occurring in soil and ambient air at the site. Readings were collected by placing the PID sensor and soil samples collected from the pit sides and bottoms in a plastic bag. Readings ranged from 0.1 to 0.5 ppm, indicating a lack of significant contamination by VOCs in the pit area.

A total of eight soil samples were collected from the pit sides and bottom using brass or stainless steel tubes capped with Teflon septa and tight-fitting plastic caps. The samples were stored on ice and delivered to McCampbell Analytical, Inc. to be analyzed for TPH, VOCs and LUFT 5 metals. The lab results indicated a lack of significant contamination. The VOC acetone was detected at negligible concentrations of up to 0.085 mg/kg (MBTEX[25] and naphthalene were not detected). TPH-d and TPH-mo were detected at concentrations of up to 3.6 and 53 mg/kg. TPH-g was not detected. The complete laboratory report is attached as Appendix B.

Central Parking Lot: A linear metal anomaly had been detected in the central portion of the parking lot. During the investigation of this area, former product lines or vent pipes were observed approximately 2 ft bgs. The pipes were cut or detached at the ends and did not extend beyond the test pit. Upon excavation, three adjacent, parallel pipes were observed in the test pit. Three openings were observed at the south portion

[25] Methyl tert-butyl ether, benzene, toluene, ethylbenzene and xylenes

of the piping. The location of the piping is depicted on Figures 3 and 4. The piping and excavated soil were stored on-site in a soil bin lined with visqueen.

PID readings were recorded from soil collected at the ends of the pipes and at any joints or connections in the piping. The readings were 0.1 ppm at all locations, indicating a lack of significant contamination by VOCs.

A total of five soil samples were collected from beneath the pipe openings and joints using brass or stainless steel tubes capped with Teflon septa and tight-fitting plastic caps. The samples were stored on ice and delivered to McCampbell Analytical, Inc. to be analyzed for TPH, VOCs and LUFT 5 metals. The laboratory results indicated that no significant contamination was present.

The automobile-related VOCs n-butyl benzene, sec-butyl benzene, isopropyl benzene, n-propyl benzene and naphthalene were detected at respective concentrations of 0.061, 0.016, 0.0056, 0.035 and 0.068 mg/kg. The corresponding ESL[26] for naphthalene is 2.8 mg/kg. No ESLs were listed for the remaining detected VOCs. TPH-g, TPH-d and TPH-mo were detected at concentrations of up to 4.5, 6.4 and 22 mg/kg, respectively. The complete laboratory report is attached as Appendix B.

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, Inc. 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 complete Data Validation Reports are included in Appendix B with the corresponding laboratory

[26] RWQCB, Table B-2 (Shallow soil at commercial/industrial sites where groundwater is not a drinking water resource)

results.

Based on a review of the validation reports, all data are considered useable for the intended purpose. However, the following should be considered:

- During the next scheduled monitoring event, groundwater samples should be analyzed for dissolved LUFT 5 metals.
- Reporting limits may be greater than corresponding ESLs for some SVOCs[27].
- Some TPH-d concentrations may be biased high due to potentially existing TPH-g concentrations. As is typically the case when analyzing via EPA method SW8015B and SW8015Bm, the carbon range for TPH-g (C6-C12) overlaps the carbon range for TPH-d (C10-C23). The potential bias does not affect the conclusions of this report.
- The TPH-g concentrations detected in MW-4 (26,000 µg/L) were considered "weakly modified or unmodified" by the lab based on the chromatograms. The following was noted by the lab regarding TPH-g concentrations detected in MW-3 (3,700 µg/L) during the same sampling event: "heavier gasoline range compounds are significant (aged gasoline?)"; also that the chromatogram exhibited "no recognizable pattern". MBTEX concentrations were significantly higher in MW-4. During the next scheduled monitoring event, the chromatograms for MW-3 and MW-4 should be compared to previous chromatograms.

H. CONCLUSIONS

The subject site is located at 2700 23rd Avenue, Oakland and is currently occupied by a liquor store and parking lot. The site was developed with a gasoline service station from approximately 1928 to 1964, owned and operated at least for a portion of this time by Associated Oil Company (see copy of 1936 building permit application attached to this report as Appendix A).

SCHUTZE & Associates, Inc. completed soil, soil vapor and groundwater investigations at the subject site. Four monitoring wells were installed. Also included were a geophysical survey and test pit excavations. Based on the geophysical results, the former service station USTs appear to have been located on the southwestern corner of the currently existing parking lot, and have been removed. SCHUTZE & Associates, Inc. removed abandoned product or vent piping. Significant contamination was not observed associated with the piping.

Soil consisted of yellowish brown silty clay, which displayed greenish and black discolorations where impacted by hydrocarbons (see attached Cross Sections, Figures 5 and 6; the cross section transects are shown on Figure 3). Groundwater occurred in a narrow, four-inch thick sandy clay horizon at approximately 13 to 14 ft bgs. The groundwater flow direction is to the southwest. Downward migration of contamination was apparently limited by silty clays beneath the thin groundwater horizon.

[27] Semi-volatile organic compounds

Soil contamination associated with the former service station operation was discovered beneath the central and southeastern portion of the parking lot, probably beneath the area of the former dispenser island. Contaminated soil was observed from approximately 5 to 14 ft bgs, with TPH-g, -d and -mo concentrations of up to 420, 710 and 1,500 mg/kg, respectively (SV2, B-13). Significant concentrations of MTBE or benzene were not detected in the soil samples.

Groundwater contamination was initially observed along the western portion of the parking lot, with TPH-d and -mo concentrations of up to 4,000 and 60,000 µg/L (B-3). This motor oil contamination could not be confirmed by a monitoring well placed in this area (MW-2). Groundwater contamination was observed on the southern portion of the subject site, potentially originating from the former dispenser island or tank areas. TPH-g, -d and -mo were detected at concentrations of up to 61,000, 36,000 and 21,000 µg/L, respectively (B-1, MW-3 and MW-4). Benzene was detected at concentrations of up to 2,800 µg/L (MW-4).

I. RECOMMENDATIONS

Based on the currently available analytical results, soil contamination exists at the southeastern portion of the parking lot, with relatively low TPH concentrations. MTBE or benzene was not detected. Therefore, SCHUTZE & Associates, Inc. recommends no further soil excavation at the present time. Additional borings and soil sampling are recommended to further outline the lateral and vertical extent of the soil contamination.

Significant groundwater contamination was observed on the south side of the parking lot. Additional groundwater testing is required on the subject site, to identify the exact source area, and also south of the subject site, to determine the down-gradient extent of the groundwater plume.

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, M.Sc., P.G.
President

Attachments

Figure 1 Site Vicinity Map

Figure 2 Site Map with Groundwater Monitoring Well Locations, Groundwater Elevation Data & Analytical Results for TPH-g & Benzene

Figure 3 Site Map with Excavation Areas and Cross Section Transects

Figure 4 Former Piping Locations & Soil Sampling Points for Excavated Areas

Figure 5 Cross Section: A-A'

Figure 6 Cross Section: B-B'

Site Photographs

Appendices

Appendix A: Copy of 1936 Building Permit Application (from Oakland Building Department)

Appendix B: Laboratory Reports, with Data Validation Reports and Chain-of-Custody Forms

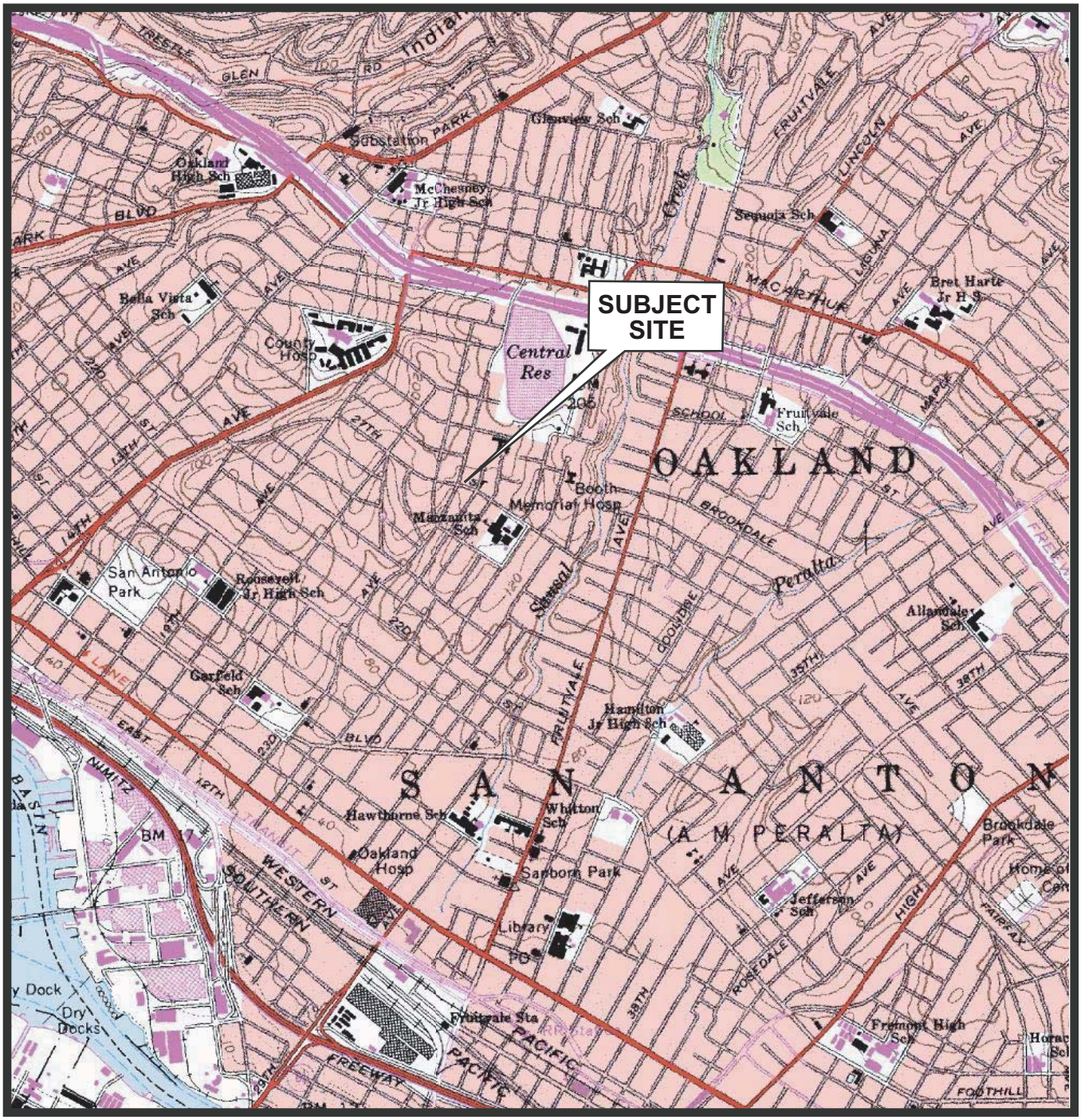
Appendix C: Well Logs

Appendix D: Well Survey Map

Appendix E: Field Data Sheets

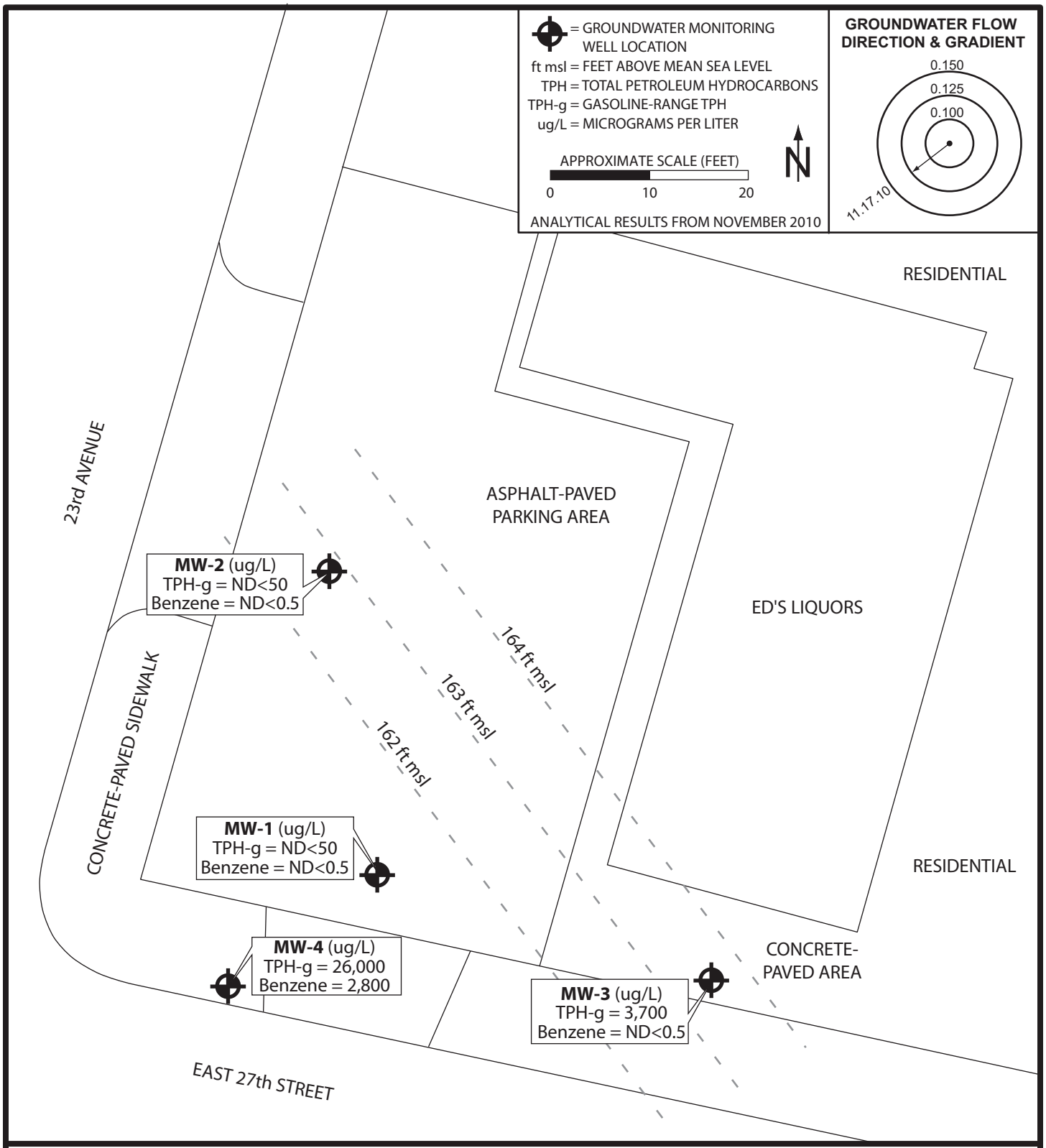
Appendix F: Well Permit

FIGURES 1 – 6



SITE VICINITY MAP
2300 23rd Avenue
Oakland, California

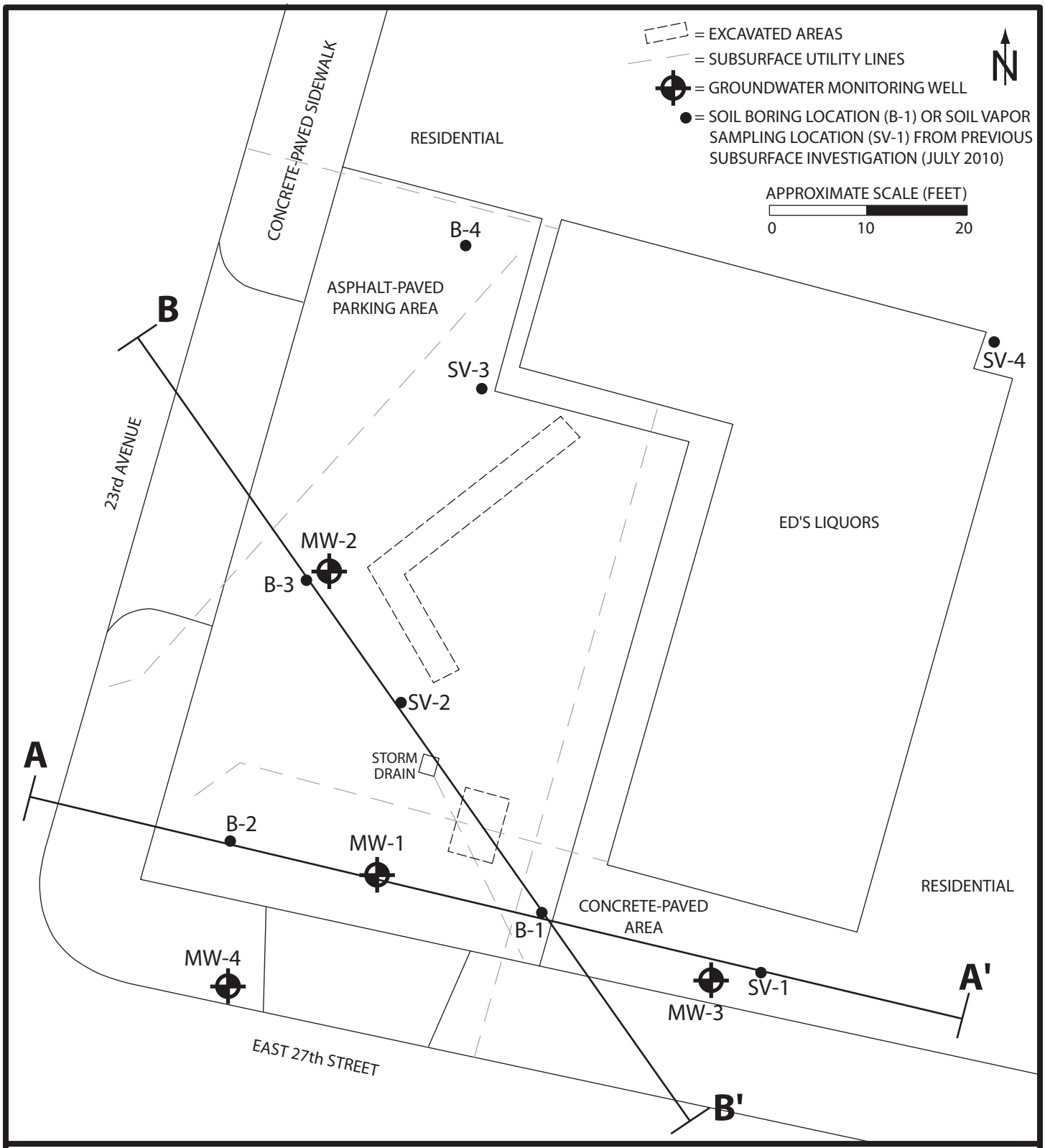
SCHUTZE & Associates, Inc. Project: SCS370.3 March 2011	Source: USGS 1996 East Oakland 7.5 Quad Scale 1:24,000	Figure 1



SITE MAP WITH GROUNDWATER MONITORING WELL LOCATIONS, GROUNDWATER ELEVATION DATA & ANALYTICAL RESULTS FOR TPH-g & BENZENE
2700 23rd AVENUE, OAKLAND, CALIFORNIA

SCHUTZE & Associates, Inc.
Project No.SCS370.3 / March 2011

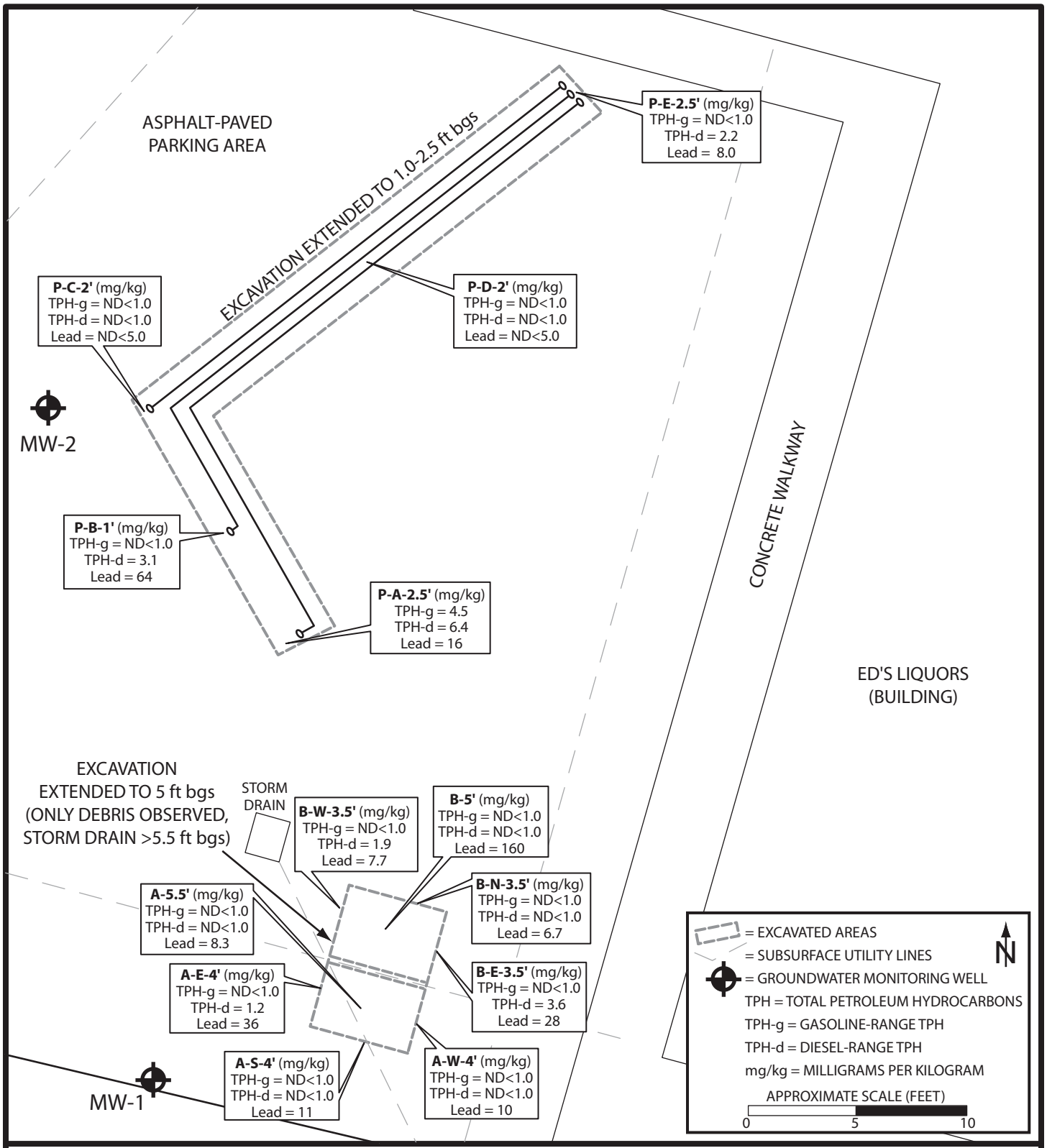
FIGURE 2



SITE MAP WITH EXCAVATED AREAS & CROSS SECTION TRANSECTS
2700 23rd AVENUE, OAKLAND, CALIFORNIA

SCHUTZE & Associates, Inc.
Project No. SCS370.3 / March 2011

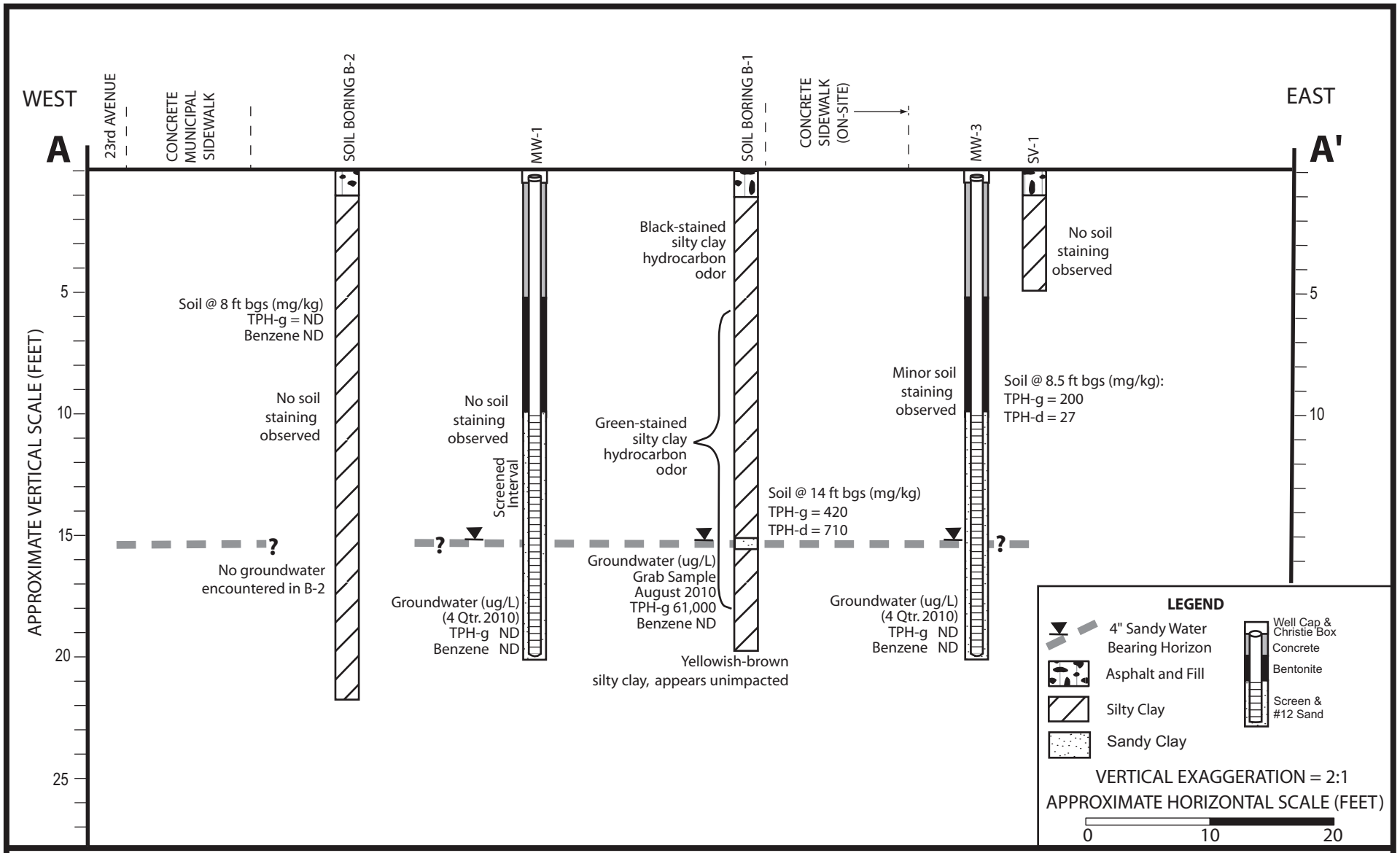
FIGURE 3



FORMER PIPING LOCATIONS (REMOVED NOVEMBER 2010) & SOIL SAMPLING POINTS FOR EXCAVATED AREAS 2700 23rd AVENUE, OAKLAND, CALIFORNIA

SCHUTZE & ASSOCIATES, INC.
PROJECT NO. SCS370.3 / MARCH 2011

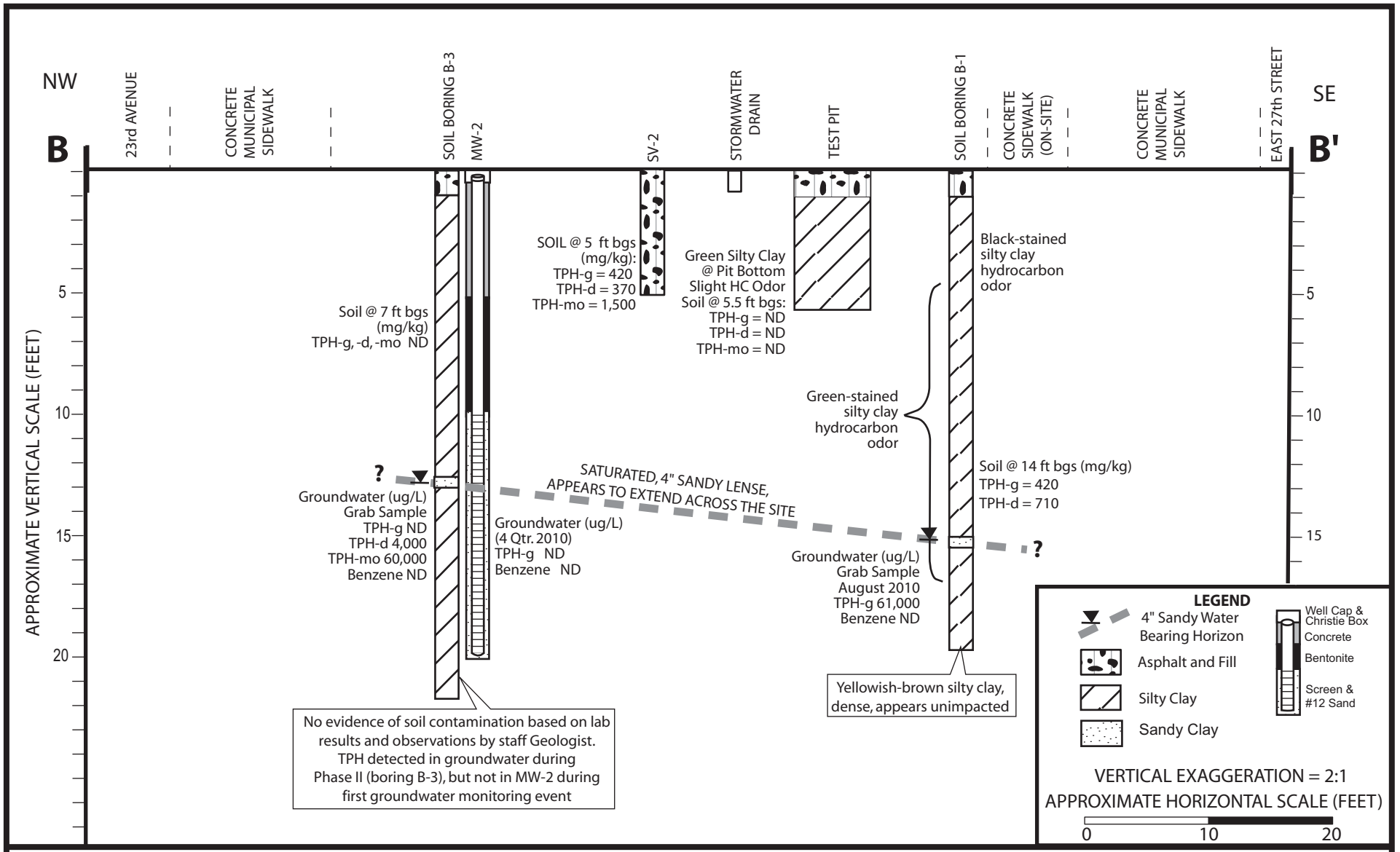
FIGURE 4



CROSS SECTION: A-A'
2700 23rd AVENUE, OAKLAND, CALIFORNIA

SCHUTZE & Associates, Inc.
Project No. SCS370.3 / March 2011

FIGURE 5



CROSS SECTION: B-B'
2700 23rd AVENUE, OAKLAND, CALIFORNIA

SCHUTZE & Associates, Inc.
Project No. SCS370.3 / March 2011

FIGURE 6

SITE PHOTOGRAPHS

Photograph 1: The monitoring wells were installed using a 6-inch-diameter, hollow-stem auger rig.

Photograph 2: Soil was screened for VOCs during the well installation and excavations using a PID.

Photograph 3: A pit excavated to 5 ft bgs at the southeast parking area was at the location of an anomaly detected during a previous geophysical survey. The electrical line running through the middle of the excavation was not disturbed.

Photograph 4: Piping detected during the geophysical survey at the central portion of the parking lot was excavated using a Bobcat and removed. Soil samples were collected from beneath the pipe openings and joints.

Photograph 5: The excavations were filled with clean, imported Class II AB fill material.

Photograph 6: The imported fill material was compacted using jumping jacks.

APPENDIX A

1936 BUILDING PERMIT

PLOT PLAN

AFFIDAVIT

I hereby make affidavit that the information contained in this application and on the plans and specifications is true and contains a correct description of the proposed work. All said work is to be done in accordance with the State Housing Act. I am authorized to act as agent for the owner.

....

Subscribed and sworn to before me this

..........day of..............................193....

....

Deputy City Clerk

REPORT OF INVESTIGATOR

PLANS CHECKED

Zoning
Setback Line
Fire Limits
Area Limit
Court Areas
Height Limit
Garage Area
Ventilation
Chimneys and Flues
Type of Frame
Exterior Walls
Floor Construction
Soil
Foundation
Retaining Walls
Engineering

APPROVED:..............................

Plan Checker

No. 402417

APPLICATION

Permit for Steel Lift Bldg

At 2700-23 ? Ave
(House Number)

Associated Oil Co Owner

.... Contractor

Cost $ 500 Fee $ ....

Issued MAY 2? 1936

OAKLAND BUILDING DEPT.

Permission is hereby granted to erect, alter or repair the building described in this application in accordance with the Building Ordinances of the City of Oakland, and to the satisfaction of the Building Inspector.

Approved

By .... E. U. ROUSSELL, Building Inspector

Issued..............................

F. O. K.

R. O. K.

W. O. K.

I. O. K.

PLASTER O. K.

FINAL O. K. 7/1/36 ???

WRITE IN INK—FILE TWO COPIES

APPLICATION FOR A BUILDING PERMIT

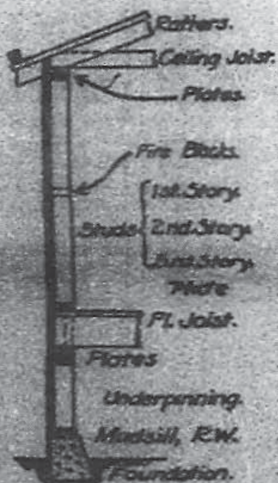
APPLICATION IS HEREBY MADE TO THE BUILDING DEPARTMENT OF THE CITY OF OAKLAND FOR PERMISSION TO DO THE FOLLOWING WORK AT

NUMBER ~~[illegible]~~ 23rd Ave + 27th St STREET AVE.

WRITE PLAINLY FULL DESCRIPTION OF WORK TO BE DONE
ALL NEW CONSTRUCTION MUST BE DESCRIBED AS TO SIZE, SPAN AND SPACING

20'x22' All Steel + Glass Automobile Lift Shelter, Concrete floors + foundation,

Roof Covering.



ENTIRE COST OF WORK (THIS MUST INCLUDE EVERYTHING NECESSARY FOR COMPLETE CONSTRUCTION OF WORK) $ 500.00

BUILDING NOW USED AS

BUILDING TO BE USED AS Automobile Lift Shelter Associated Oil Co

I HEREBY AGREE TO SAVE, INDEMNIFY AND KEEP HARMLESS THE CITY OF OAKLAND AND ITS OFFICERS, EMPLOYEES AND AGENTS AGAINST ALL LIABILITIES, JUDGMENTS, COSTS AND EXPENSES WHICH MAY IN ANY WISE ACCRUE AGAINST THE CITY IN CONSEQUENCE OF THE GRANTING OF THIS PERMIT, OR FROM THE USE OR OCCUPANCY OF ANY SIDEWALK, STREET OR SUB-SIDEWALK, OR OTHERWISE BY VIRTUE THEREOF, AND WILL IN ALL THINGS STRICTLY COMPLY WITH THE CONDITIONS UNDER WHICH THIS PERMIT IS GRANTED.

CONTRACTOR OR AGT.
ADDRESS

OWNER Associated Oil Co

DESIGNER
ADDRESS

ADDRESS 79 New Montgomery San Francisco
BY A Riedel

ORDINANCE 1465 N.S., SECTION 66: "WHEN A BUILDING IS READY FOR LATHING OR SHEATHING ON THE INSIDE, THE BUILDING INSPECTOR SHALL BE NOTIFIED. THE ROUGH STUDDING SHALL NOT BE COVERED OR IN ANY WAY CONCEALED FROM VIEW UNTIL INSPECTION HAS BEEN MADE AND THE WRITTEN APPROVAL OF THE BUILDING INSPECTOR OBTAINED."

THE DEPARTMENT WILL CALL UP TELEPHONE NO. ______ IF ANY ALTERATIONS OR CHANGES ARE NECESSARY ON THE PLANS SUBMITTED.

STATE LICENSE NO. ______ CITY LICENSE NO. ______

APPENDIX B

LABORATORY REPORTS

Laboratory Results:

Soil (Well Installation)

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1010783

SAMPLES: MW1-3.5', MW1-8.5', MW1-13.5', MW1-18.5', MW2-3.5', MW2-8.5', MW2-13.5', MW2-18.5', MW3-3.5', MW3-8.5', MW3-13.5', MW3-18.5', MW4-3.5', MW4-8.5', MW4-13.5', MW4-18.5'

MATRIX: Soil

Analysis	SW8260B – VOCs
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

- RLs<ESLs and DF=1 for MW1-3.5', MW2-3.5', MW4-13.5' and MW4-18.5'.
- RLs>ESLS and DF=20 for sample MW3-8.5'.
- RLs>ESLS and DF=100 for sample MW4-3.5'.
- RLs>ESLS and DF=40 for sample MW4-8.5'.
- MS/MSD from WO# 1010742.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1010783

SAMPLES: MW4-3.5'

MATRIX: Soil

Analysis	SW8270C – PNAs
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- DF=1, however all RLs may not exceed ESLs for 8270C.
- MS/MSD from WO# 1010715.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1010783

SAMPLES: MW1-3.5', MW1-8.5', MW1-13.5', MW1-18.5', MW2-3.5', MW2-8.5', MW2-13.5', MW2-18.5', MW3-3.5', MW3-8.5', MW3-13.5', MW3-18.5', MW4-3.5', MW4-8.5', MW4-13.5', MW4-18.5'

MATRIX: Soil

Analysis	SW8015Bm TPH-g (C6-C12)
Holding Time	✓
Surrogate Recovery	See notes
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

- For sample MW4-3.5', "cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference", no surrogate recovery value was listed.
- RLs raised for MW3-8.5' (DF=20), MW4-3.5' (DF=100) and MW4-8.5' (DF=20) due to high TPH-g concentrations (detected TPH-g concentrations for these samples > RLs).
- For samples MW3-8.5', MW4-3.5' and MW4-8.5', "strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram" and "no recognizable pattern".
- MS/MSD from WO# 1010674.

Summary:

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

SCHUTZE & Associates, Inc.

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1010783

SAMPLES: MW1-3.5', MW1-8.5', MW1-13.5', MW1-18.5', MW2-3.5', MW2-8.5', MW2-13.5', MW2-18.5', MW3-3.5', MW3-8.5', MW3-13.5', MW3-18.5', MW4-3.5', MW4-8.5', MW4-13.5', MW4-18.5'

MATRIX: Soil

Analysis	SW6010B LUFT 5 Metals (TOTAL)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs (DF=1).
- MS/MSD from WO# 1010674.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1010783

SAMPLES: MW1-3.5', MW1-8.5', MW1-13.5', MW1-18.5', MW2-3.5', MW2-8.5', MW2-13.5', MW2-18.5', MW3-3.5', MW3-8.5', MW3-13.5', MW3-18.5', MW4-3.5', MW4-8.5', MW4-13.5', MW4-18.5'

MATRIX: Soil

Analysis	SW8015B – TPH-d (C10-C23) and TPH-mo (C18-C36)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs (DF=1).
- For samples MW3-8.5', MW4-3.5' and MW4-8.5', "Stoddard solvent/mineral spirit(?)".
- For sample MW2-3.5', "oil range compounds are significant".
- For samples MW2-3.5' and MW2-18.5', "diesel range compounds are significant".
- MS/MSD from WO# 1010674.

Summary:

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Reported: 11/04/10
Oakland, CA 94606	Client P.O.:	Date Completed: 11/04/10

WorkOrder: 1010783

November 04, 2010

Dear Ian:

Enclosed within are:

1) The results of the **16** analyzed samples from your project: **#SCS370; 23rd Ave,**
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1010783

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 #: 5C5370 Project Name: 23rd Ave

Project Location: Oakland, CA

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HNO3	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + G+MO	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 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl 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	Other	Comments
MW1-3.5'		10.27.10		1	Brass Tubes	X					X			X	X									X				X				
MW1-8.5'						X					X			X	X													X				
MW1-13.5'						X					X			X	X													X				
MW1-18.5'						X					X			X	X													X				
MW2-3.5'						X					X			X	X										X			X				
MW2-8.5'						X					X			X	X													X				
MW2-13.5'						X					X			X	X													X				
MW2-18.5'						X					X			X	X													X				
MW3-3.5'						X					X			X	X													X				
MW3-8.5'						X					X			X	X										X			X				
MW3-13.5'						X					X			X	X													X				

**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:	Date:	Time:	Received By:
	10.28.10	3:35	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 40 i
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:** 23rd Ave

Project Location: Oakland, CA

Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
MW3-18.5'		10.27.10		1	Brass Tubes		X				X			
MW4-3.5'		↓		↓			X				X			
MW4-8.5'		↓		↓			X				X			
MW4-13.5'		↓		↓			X				X			
MW4-18.5'		↓		↓			X				X			

Analysis Request

SAMPLE ID	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + G+MO	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 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl 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	Other	Other	Comments
MW3-18.5'		X													X					
MW4-3.5'		X									X		X		X					
MW4-8.5'		X									X				X					
MW4-13.5'		X									X				X					
MW4-18.5'		X									X				X					

Comments: **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:	Date:	Time:	Received By:
[signature]	10/28/10	3:50p	[signature] Vaa
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°______
GOOD CONDITION______
HEAD SPACE ABSENT______
DECHLORINATED IN LAB______
APPROPRIATE CONTAINERS______
PRESERVED IN LAB______

VOAS O&G METALS OTHER
PRESERVATION______ pH<2______

COMMENTS: 2/2

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010783 **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

Email: js@schutze-inc.com, ian@schutze-inc.co
cc:
PO:
ProjectNo: #SCS370; 23rd Ave

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

Requested TAT: 5 days

Date Received: **10/28/2010**
Date Printed: **10/28/2010**

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
1010783-001	MW1-3.5'	Soil	10/27/2010	☐	A		A	A								
1010783-002	MW1-8.5'	Soil	10/27/2010	☐			A	A								
1010783-003	MW1-13.5'	Soil	10/27/2010	☐			A	A								
1010783-004	MW1-18.5'	Soil	10/27/2010	☐			A	A								
1010783-005	MW2-3.5'	Soil	10/27/2010	☐	A		A	A								
1010783-006	MW2-8.5'	Soil	10/27/2010	☐			A	A								
1010783-007	MW2-13.5'	Soil	10/27/2010	☐			A	A								
1010783-008	MW2-18.5'	Soil	10/27/2010	☐			A	A								
1010783-009	MW3-3.5'	Soil	10/27/2010	☐			A	A								
1010783-010	MW3-8.5'	Soil	10/27/2010	☐	A		A	A								
1010783-011	MW3-13.5'	Soil	10/27/2010	☐			A	A								
1010783-012	MW3-18.5'	Soil	10/27/2010	☐			A	A								
1010783-013	MW4-3.5'	Soil	10/27/2010	☐	A	A	A	A								
1010783-014	MW4-8.5'	Soil	10/27/2010	☐	A		A	A								

Test Legend:

1	8260B_S	2	8270D-PNA_S	3	G-MBTEX_S	4	LUFT_S	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A contain testgroup.

Prepared by: Melissa Valles

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.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010783 **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

Email: js@schutze-inc.com, ian@schutze-inc.co
cc:
PO:
ProjectNo: #SCS370; 23rd Ave

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

Requested TAT: 5 days

Date Received: **10/28/2010**
Date Printed: **10/28/2010**

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
1010783-015	MW4-13.5'	Soil	10/27/2010	☐	A		A	A								
1010783-016	MW4-18.5'	Soil	10/27/2010	☐	A		A	A								

Test Legend:

1	8260B_S	2	8270D-PNA_S	3	G-MBTEX_S	4	LUFT_S	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A contain testgroup.

Prepared by: Melissa Valles

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.

McCampbell Analytical, Inc.
"When Quality Counts"

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

Sample Receipt Checklist

Client Name: **Schutze & Associates**
Date and Time Received: **10/28/2010 4:07:41 PM**

Project Name: **#SCS370; 23rd Ave**
Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1010783** Matrix Soil
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: 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 ☐	
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	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/29/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-001A
Client ID	MW1-3.5'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	80	%SS2:	96
%SS3:	94		

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

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/29/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-005A
Client ID	MW2-3.5'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	85	%SS2:	102
%SS3:	93		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/01/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-010A
Client ID	MW3-8.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1.0	20	0.05	tert-Amyl methyl ether (TAME)	ND<0.10	20	0.005
Benzene	ND<0.10	20	0.005	Bromobenzene	ND<0.10	20	0.005
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromethane	ND<0.10	20	0.005
Bromoform	ND<0.10	20	0.005	Bromomethane	ND<0.10	20	0.005
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TBA)	ND<1.0	20	0.05
n-Butyl benzene	0.14	20	0.005	sec-Butyl benzene	ND<0.10	20	0.005
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide	ND<0.10	20	0.005
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene	ND<0.10	20	0.005
Chloroethane	ND<0.10	20	0.005	Chloroform	ND<0.10	20	0.005
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene	ND<0.10	20	0.005
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromethane	ND<0.10	20	0.005
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane (EDB)	ND<0.080	20	0.004
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzene	ND<0.10	20	0.005
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzene	ND<0.10	20	0.005
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane	ND<0.10	20	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene	ND<0.10	20	0.005
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroethene	ND<0.10	20	0.005
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropane	ND<0.10	20	0.005
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropene	ND<0.10	20	0.005
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloropropene	ND<0.10	20	0.005
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene	ND<0.10	20	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113	ND<2.0	20	0.1
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane	ND<0.10	20	0.005
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene	0.17	20	0.005
4-Isopropyl toluene	ND<0.10	20	0.005	Methyl-t-butyl ether (MTBE)	ND<0.10	20	0.005
Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.10	20	0.005
Naphthalene	ND<0.10	20	0.005	n-Propyl benzene	0.62	20	0.005
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloroethane	ND<0.10	20	0.005
1,1,2,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene	ND<0.10	20	0.005
Toluene	ND<0.10	20	0.005	1,2,3-Trichlorobenzene	ND<0.10	20	0.005
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroethane	ND<0.10	20	0.005
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	ND<0.10	20	0.005
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropropane	ND<0.10	20	0.005
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylbenzene	ND<0.10	20	0.005
Vinyl Chloride	ND<0.10	20	0.005	Xylenes	ND<0.10	20	0.005

Surrogate Recoveries (%)

%SS1:	91	%SS2:	92
%SS3:	102		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/01/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-013A
Client ID	MW4-3.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl ether (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene	ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichloromethane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane	ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TBA)	ND<5.0	100	0.05
n-Butyl benzene	1.8	100	0.005	sec-Butyl benzene	0.60	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide	ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochloromethane	ND<0.50	100	0.005
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane (EDB)	ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzene	ND<0.50	100	0.005
1,3-Dichlorobenzene	ND<0.50	100	0.005	1,4-Dichlorobenzene	ND<0.50	100	0.005
Dichlorodifluoromethane	ND<0.50	100	0.005	1,1-Dichloroethane	ND<0.50	100	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.40	100	0.004	1,1-Dichloroethene	ND<0.50	100	0.005
cis-1,2-Dichloroethene	ND<0.50	100	0.005	trans-1,2-Dichloroethene	ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropane	ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloropropene	ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichloropropene	ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene	1.1	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113	ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane	ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene	1.2	100	0.005
4-Isopropyl toluene	0.81	100	0.005	Methyl-t-butyl ether (MTBE)	ND<0.50	100	0.005
Methylene chloride	ND<0.50	100	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.50	100	0.005
Naphthalene	ND<0.50	100	0.005	n-Propyl benzene	2.8	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloroethane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene	ND<0.50	100	0.005
Toluene	ND<0.50	100	0.005	1,2,3-Trichlorobenzene	ND<0.50	100	0.005
1,2,4-Trichlorobenzene	ND<0.50	100	0.005	1,1,1-Trichloroethane	ND<0.50	100	0.005
1,1,2-Trichloroethane	ND<0.50	100	0.005	Trichloroethene	ND<0.50	100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloropropane	ND<0.50	100	0.005
1,2,4-Trimethylbenzene	ND<0.50	100	0.005	1,3,5-Trimethylbenzene	ND<0.50	100	0.005
Vinyl Chloride	ND<0.50	100	0.005	Xylenes	0.96	100	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	98
%SS3:	119		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/01/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-014A
Client ID	MW4-8.5'
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	ND<0.20	40	0.005	sec-Butyl benzene	ND<0.20	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	0.61	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	ND<0.20	40	0.005
4-Isopropyl toluene	ND<0.20	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	0.27	40	0.005	n-Propyl benzene	0.25	40	0.005
Styrene	ND<0.20	40	0.005	1,1,1,2-Tetrachloroethane	ND<0.20	40	0.005
1,1,2,2-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	1.3	40	0.005	1,3,5-Trimethylbenzene	0.23	40	0.005
Vinyl Chloride	ND<0.20	40	0.005	Xylenes	1.4	40	0.005

Surrogate Recoveries (%)

%SS1:	99	%SS2:	97
%SS3:	103		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/01/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-015A
Client ID	MW4-13.5'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	95	%SS2:	110
%SS3:	117		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/02/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1010783

Lab ID	1010783-016A
Client ID	MW4-18.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	0.0051	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	83	%SS2:	115
%SS3:	86		

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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/02/10

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Extraction Method: SW3550B Analytical Method: SW8270C Work Order: 1010783

					Reporting Limit for DF =1	
Lab ID	1010783-013A					
Client ID	MW4-3.5'					
Matrix	S					
DF	1				S	W
Compound	**Concentration**				mg/kg	ug/L
Acenaphthene	ND				0.005	NA
Acenaphthylene	ND				0.005	NA
Anthracene	ND				0.005	NA
Benzo(a)anthracene	ND				0.005	NA
Benzo(a)pyrene	ND				0.005	NA
Benzo(b)fluoranthene	ND				0.005	NA
Benzo(g,h,i)perylene	ND				0.005	NA
Benzo(k)fluoranthene	ND				0.005	NA
Chrysene	ND				0.005	NA
Dibenzo(a,h)anthracene	ND				0.005	NA
Fluoranthene	0.0057				0.005	NA
Fluorene	0.0056				0.005	NA
Indeno (1,2,3-cd) pyrene	ND				0.005	NA
1-Methylnaphthalene	0.30				0.005	NA
2-Methylnaphthalene	0.75				0.005	NA
Naphthalene	ND				0.005	NA
Phenanthrene	0.0063				0.005	NA
Pyrene	0.0059				0.005	NA
Surrogate Recoveries (%)						
%SS1	100					
%SS2	106					
Comments						

* water samples 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 are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS means Percent Recovery of Surrogate Standard; DF means Dilution Factor

#) surrogate diluted out of range or surrogate coelutes with another peak.; &) low or no surrogate due to matrix interference.

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AC for Angela Rydelius, Lab Manager

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		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed 10/29/10-11/01/10

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

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1010783

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	MW1-3.5'	S	ND	1	96	
002A	MW1-8.5'	S	ND	1	92	
003A	MW1-13.5'	S	ND	1	96	
004A	MW1-18.5'	S	ND	1	99	
005A	MW2-3.5'	S	ND	1	88	
006A	MW2-8.5'	S	ND	1	99	
007A	MW2-13.5'	S	ND	1	88	
008A	MW2-18.5'	S	ND	1	86	
009A	MW3-3.5'	S	ND	1	88	
010A	MW3-8.5'	S	200	20	89	d7,d9
011A	MW3-13.5'	S	ND	1	96	
012A	MW3-18.5'	S	ND	1	87	
013A	MW4-3.5'	S	1400	100	---#	d7,d9
014A	MW4-8.5'	S	270	20	95	d7,d9
015A	MW4-13.5'	S	ND	1	85	
016A	MW4-18.5'	S	ND	1	86	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	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 McCampbell Analytical is not responsible for their interpretation:

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	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/29/10

LUFT 5 Metals*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1010783

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001A	MW1-3.5'	S	TOTAL	ND	34	15	50	28	1	106	
002A	MW1-8.5'	S	TOTAL	ND	63	7.2	110	66	1	96	
003A	MW1-13.5'	S	TOTAL	ND	48	7.7	81	54	1	103	
004A	MW1-18.5'	S	TOTAL	ND	57	5.7	65	56	1	102	
005A	MW2-3.5'	S	TOTAL	ND	80	6.1	60	62	1	98	
006A	MW2-8.5'	S	TOTAL	ND	43	6.7	66	43	1	103	
007A	MW2-13.5'	S	TOTAL	ND	45	ND	64	47	1	104	
008A	MW2-18.5'	S	TOTAL	ND	60	7.2	64	64	1	105	
009A	MW3-3.5'	S	TOTAL	ND	34	ND	35	31	1	101	
010A	MW3-8.5'	S	TOTAL	ND	40	9.8	31	26	1	104	
011A	MW3-13.5'	S	TOTAL	ND	36	ND	23	83	1	104	
012A	MW3-18.5'	S	TOTAL	ND	55	11	93	67	1	97	
013A	MW4-3.5'	S	TOTAL	2.0	55	18	46	1200	1	102	
014A	MW4-8.5'	S	TOTAL	ND	69	6.6	110	68	1	98	
015A	MW4-13.5'	S	TOTAL	ND	47	6.6	55	53	1	97	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA
	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit/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

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CC for Angela Rydelius, Lab Manager

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		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/29/10

LUFT 5 Metals*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1010783

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
016A	MW4-18.5'	S	TOTAL	ND	71	6.4	61	59	1	106	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA	
	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg	

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

means surrogate diluted out of range; ND means not detected above the reporting limit/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

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/31/10-11/04/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1010783

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1010783-001A	MW1-3.5'	S	ND	ND	1	114	
1010783-002A	MW1-8.5'	S	ND	ND	1	111	
1010783-003A	MW1-13.5'	S	ND	ND	1	111	
1010783-004A	MW1-18.5'	S	ND	ND	1	109	
1010783-005A	MW2-3.5'	S	5.1	5.5	1	108	e7,e2
1010783-006A	MW2-8.5'	S	ND	ND	1	109	
1010783-007A	MW2-13.5'	S	ND	ND	1	110	
1010783-008A	MW2-18.5'	S	1.2	ND	1	109	e2
1010783-009A	MW3-3.5'	S	ND	ND	1	108	
1010783-010A	MW3-8.5'	S	27	ND	1	110	e11
1010783-011A	MW3-13.5'	S	ND	ND	1	114	
1010783-012A	MW3-18.5'	S	ND	ND	1	109	
1010783-013A	MW4-3.5'	S	220	16	1	116	e11
1010783-014A	MW4-8.5'	S	18	ND	1	116	e11
1010783-015A	MW4-13.5'	S	ND	ND	1	110	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/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 McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

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AC for Angela Rydelius, Lab Manager

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Schutze & Associates	Client Project ID: #SCS370; 23rd Ave	Date Sampled: 10/27/10
		Date Received: 10/28/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 10/28/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 10/31/10-11/04/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1010783

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1010783-016A	MW4-18.5'	S	ND	ND	1	110	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/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 McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54017 WorkOrder 1010783

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010674-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	85.1	90	5.64	93.6	97.3	3.86	70 - 130	20	70 - 130	20
MTBE	ND	0.10	83.6	85.3	2.04	109	91.5	17.5	70 - 130	20	70 - 130	20
Benzene	ND	0.10	74	76.5	3.43	89.1	88.8	0.311	70 - 130	20	70 - 130	20
Toluene	ND	0.10	85	88.6	4.07	90.3	91.3	1.07	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	92.9	97.2	4.52	99.9	103	3.29	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	92.9	96.3	3.59	112	115	2.90	70 - 130	20	70 - 130	20
%SS:	88	0.10	77	80	3.61	99	100	0.713	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 54017 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-005A	10/27/10	10/28/10	10/29/10 12:57 PM	1010783-006A	10/27/10	10/28/10	11/01/10 9:51 PM
1010783-007A	10/27/10	10/28/10	10/30/10 1:05 AM	1010783-008A	10/27/10	10/28/10	10/30/10 2:35 AM
1010783-009A	10/27/10	10/28/10	10/29/10 1:58 PM	1010783-010A	10/27/10	10/28/10	10/30/10 4:05 AM
1010783-011A	10/27/10	10/28/10	11/01/10 10:51 PM	1010783-012A	10/27/10	10/28/10	11/01/10 10:07 PM
1010783-013A	10/27/10	10/28/10	10/29/10 7:23 PM	1010783-014A	10/27/10	10/28/10	10/29/10 2:59 PM
1010783-015A	10/27/10	10/28/10	10/30/10 5:05 AM	1010783-016A	10/27/10	10/28/10	10/30/10 6:05 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.

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.

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CC for _____ QA/QC Officer

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54048 WorkOrder 1010783

EPA Method SW8270C **Extraction SW3550B** **Spiked Sample ID: 1010715-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzo(a)pyrene	0.11	0.20	55.8	55.3	0.531	85.3	82.7	3.11	30 - 130	30	30 - 130	30
Chrysene	0.13	0.20	33.2	33.7	0.519	88.1	94	6.48	30 - 130	30	30 - 130	30
1-Methylnaphthalene	ND<0.050	0.20	83.7	87.6	4.55	86	88.5	2.81	30 - 130	30	30 - 130	30
2-Methylnaphthalene	ND<0.050	0.20	86.8	87.9	1.18	84.6	84.8	0.211	30 - 130	30	30 - 130	30
Phenanthrene	0.13	0.20	97.5	100	1.68	91.5	90.9	0.694	30 - 130	30	30 - 130	30
Pyrene	0.24	0.20	90.7	94.4	1.73	98.4	102	3.61	30 - 130	30	30 - 130	30
%SS1:	121	2	129	125	2.60	104	103	0.226	30 - 130	30	30 - 130	30
%SS2:	104	2	104	105	1.55	113	106	5.70	30 - 130	30	30 - 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 54048 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-013A	10/27/10	10/28/10	11/02/10 7:55 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.

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CC for
QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54053 WorkOrder 1010783

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010730-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	93.8	102	8.81	91.7	101	10.1	70 - 130	20	70 - 130	20
MTBE	ND	0.10	92.6	94.8	2.32	89.1	79.6	11.2	70 - 130	20	70 - 130	20
Benzene	ND	0.10	78.4	75.9	2.99	78.5	84.2	7.05	70 - 130	20	70 - 130	20
Toluene	ND	0.10	94.9	92.1	2.97	90	97.3	7.80	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	104	101	2.74	98	107	8.59	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	102	99.9	1.96	97.5	106	8.41	70 - 130	20	70 - 130	20
%SS:	83	0.10	86	84	3.27	84	88	4.92	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 54053 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-001A	10/27/10	10/28/10	10/29/10 3:54 AM	1010783-002A	10/27/10	10/28/10	10/29/10 4:24 AM
1010783-003A	10/27/10	10/28/10	10/30/10 2:22 AM	1010783-004A	10/27/10	10/28/10	11/01/10 9:21 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.

DHS ELAP Certification 1644

CC for _____ QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54062 WorkOrder 1010783

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1010742-010A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	79.1	79.6	0.612	78.4	80.2	2.35	70 - 130	30	70 - 130	30
Benzene	ND	0.050	93.6	98.5	5.11	97.7	98	0.371	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	84.6	78.6	7.39	80.7	82.4	2.08	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	94.1	97.7	3.75	99.1	100	1.20	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	87.3	87.7	0.423	92.5	94.1	1.72	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	92.3	95.8	3.73	93.3	93.5	0.242	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	114	121	5.98	119	119	0	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	105	109	3.24	103	103	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	91.7	93.8	2.26	90.2	90.6	0.399	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.2	97.4	1.23	95.3	95.6	0.278	70 - 130	30	70 - 130	30
Toluene	ND	0.050	106	109	3.27	110	112	1.62	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	88.8	94.7	6.38	92	92.4	0.462	70 - 130	30	70 - 130	30
%SS1:	88	0.13	82	82	0	85	84	0.451	70 - 130	30	70 - 130	30
%SS2:	110	0.13	115	114	0.834	114	115	1.07	70 - 130	30	70 - 130	30
%SS3:	114	0.013	93	91	2.14	102	104	2.02	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 54062 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-001A	10/27/10	10/28/10	10/29/10 10:36 AM	1010783-005A	10/27/10	10/28/10	10/29/10 11:18 AM
1010783-010A	10/27/10	10/28/10	11/01/10 1:51 PM	1010783-013A	10/27/10	10/28/10	11/01/10 2:33 PM
1010783-014A	10/27/10	10/28/10	11/01/10 3:17 PM	1010783-015A	10/27/10	10/28/10	11/01/10 4:45 PM
1010783-016A	10/27/10	10/28/10	11/02/10 4:57 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.

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

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_____ QA/QC Officer

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1010783

EPA Method SW6010B	Extraction SW3050B	BatchID: 54012	Spiked Sample ID: 1010671-009A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	98.2	100	1.72	10	91	89.7	1.44	75 - 125	25	75 - 125	25
Chromium	43	50	96.8	93	2.04	10	94.3	96.6	2.49	75 - 125	25	75 - 125	25
Lead	110	50	NR	NR	NR	10	101	89.8	11.8	75 - 125	25	75 - 125	25
Nickel	36	50	93.6	93.8	0.120	10	92.8	90.8	2.21	75 - 125	25	75 - 125	25
Zinc	120	500	96.6	98.2	1.32	100	104	99.4	4.06	75 - 125	25	75 - 125	25
%SS:	105	250	108	104	3.96	250	104	106	2.38	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 54012 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-001A	10/27/10	10/28/10	10/29/10 10:36 PM	1010783-002A	10/27/10	10/28/10	10/29/10 10:39 PM
1010783-003A	10/27/10	10/28/10	10/29/10 10:43 PM	1010783-004A	10/27/10	10/28/10	10/29/10 10:46 PM
1010783-005A	10/27/10	10/28/10	10/29/10 10:50 PM	1010783-006A	10/27/10	10/28/10	10/29/10 10:53 PM
1010783-007A	10/27/10	10/28/10	10/29/10 10:56 PM				

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification 1644

_____ QA/QC Officer

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1010783

EPA Method SW6010B	Extraction SW3050B	BatchID: 54018	Spiked Sample ID: 1010674-002A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	92.8	96	3.39	10	91.5	93.6	2.27	75 - 125	25	75 - 125	25
Chromium	61	50	101	103	0.960	10	96.1	93.8	2.40	75 - 125	25	75 - 125	25
Lead	8.9	50	92.4	96.8	3.96	10	103	99.8	3.20	75 - 125	25	75 - 125	25
Nickel	44	50	94.6	98	1.81	10	92.3	97	4.94	75 - 125	25	75 - 125	25
Zinc	73	500	97	100	3.00	100	101	103	2.25	75 - 125	25	75 - 125	25
%SS:	103	250	100	98	1.13	250	104	104	0	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 54018 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-008A	10/27/10	10/28/10	10/29/10 11:00 PM	1010783-009A	10/27/10	10/28/10	10/29/10 11:03 PM
1010783-010A	10/27/10	10/28/10	10/29/10 11:07 PM	1010783-011A	10/27/10	10/28/10	10/29/10 11:17 PM
1010783-012A	10/27/10	10/28/10	10/29/10 11:20 PM	1010783-013A	10/27/10	10/28/10	10/29/10 11:23 PM
1010783-014A	10/27/10	10/28/10	10/29/10 11:27 PM	1010783-015A	10/27/10	10/28/10	10/29/10 11:30 PM
1010783-016A	10/27/10	10/28/10	10/29/10 11:34 PM				

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification 1644

CC for
_____ QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54090 WorkOrder 1010783

EPA Method SW8015B **Extraction SW3550B** **Spiked Sample ID: 1010783-016A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	40	125	126	0.696	112	112	0	70 - 130	30	70 - 130	30
%SS:	110	25	104	105	0.454	95	94	0.830	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 54090 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010783-001A	10/27/10	10/28/10	10/31/10 2:35 AM	1010783-002A	10/27/10	10/28/10	11/03/10 11:17 PM
1010783-003A	10/27/10	10/28/10	11/04/10 12:28 AM	1010783-004A	10/27/10	10/28/10	11/02/10 5:54 AM
1010783-005A	10/27/10	10/28/10	11/02/10 7:03 AM	1010783-006A	10/27/10	10/28/10	11/02/10 4:45 AM
1010783-007A	10/27/10	10/28/10	11/04/10 1:38 AM	1010783-008A	10/27/10	10/28/10	11/02/10 3:36 AM
1010783-009A	10/27/10	10/28/10	11/01/10 9:47 PM	1010783-010A	10/27/10	10/28/10	11/01/10 10:57 PM
1010783-011A	10/27/10	10/28/10	10/31/10 3:51 AM	1010783-012A	10/27/10	10/28/10	11/03/10 4:20 AM
1010783-013A	10/27/10	10/28/10	10/31/10 7:35 PM	1010783-014A	10/27/10	10/28/10	10/31/10 7:40 AM
1010783-015A	10/27/10	10/28/10	11/02/10 2:26 AM	1010783-016A	10/27/10	10/28/10	11/01/10 8:36 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.

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CC for _____ QA/QC Officer

Laboratory Results:

Groundwater

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1011599

SAMPLES: MW-1, MW-2, MW-3 and MW-4

MATRIX: Groundwater

Analysis	SW8260B – VOCS
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

- RLs<ESLs for MW-1, MW-2 and MW-3, DF=1.
- RLs raised for MW-4 due to high BTEX concentrations, DF=100.
- MS/MSD from WO# 1011578.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1011599

SAMPLES: MW-1, MW-2, MW-3 and MW-4

MATRIX: Groundwater

Analysis	SW8015Bm TPH-g (C6-C12)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	See notes

✓ – QC criteria were met.

Notes:

- RLs<ESLs for MW-1, MW-2 and MW-3, DF=1.
- RLs raised for MW-4 due to high TPH-g concentration, DF=100.
- MS/MSD from WO# 1011582.
- For MW-3, “heavier gasoline range compounds are significant (aged gasoline?)” and “no recognizable pattern”. TPH concentrations may be altered/aged/ degraded since the gasoline service station was demolished in the mid 1960s.
- For MW-4, “weakly modified or unmodified gasoline is significant”.
- During the next scheduled monitoring event, the chromatograms for MW-3 and MW-4 should be compared to previous chromatograms.

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: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1011599

SAMPLES: MW-1, MW-2, MW-3 and MW-4

MATRIX: Groundwater

Analysis	SW8015B TPH-d (C10-C23) and TPH-mo (C18-C36)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	See notes
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1.
- MS/MSD not conducted due to lack of sample matrix.
- For MW-4, “diesel range compounds are significant, no recognizable pattern”. TPH concentrations may be altered/aged/degraded since the gasoline service station was demolished in the mid 1960s.
- For MW-3 and MW-4, “gasoline range concentrations are significant”. TPH-d concentrations may be biased high due to high TPH-g concentrations also detected in the samples.

Summary:

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Reported: 11/30/10
Oakland, CA 94606	Client P.O.:	Date Completed: 11/29/10

WorkOrder: 1011599

November 30, 2010

Dear Ian:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **SCS370; 2700 23rd Ave,**
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1011597

McCAMPBELL ANALYTICAL, INC.

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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:** 2700 23rd Ave.

Project Location: Oakland, CA

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HCL	HNO_3	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + G + MO	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 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl 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	Other	Other	Other	Comments
MW-1		11.18.10	1:42	3		X					X	X			X	X									X										
MW-2		"	1:30	3		X					X	X			X	X									X										
MW-3		"	1:12	3		X					X	X			X	X									X										
MW-4		↓	1:50	3		X					X	X			X	X									X										

**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:	Date:	Time:	Received By:
	11/19	1330	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.4

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011599 **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

Email: js@schutze-inc.com, ian@schutze-inc.co
cc:
PO:
ProjectNo: SCS370; 2700 23rd Ave

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

Requested TAT: 5 days

Date Received: **11/19/2010**
Date Printed: **11/19/2010**

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
1011599-001	MW-1	Water	11/18/2010 13:42	☐	B	A										
1011599-002	MW-2	Water	11/18/2010 13:30	☐	B	A										
1011599-003	MW-3	Water	11/18/2010 13:12	☐	B	A										
1011599-004	MW-4	Water	11/18/2010 13:50	☐	B	A										

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A 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.

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

Sample Receipt Checklist

Client Name: **Schutze & Associates**
Date and Time Received: **11/19/2010 1:36:19 PM**

Project Name: **SCS370; 2700 23rd Ave**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1011599** Matrix 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: 3.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
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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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/24/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/24/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1011599

Lab ID	1011599-001B
Client ID	MW-1
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)	1.3	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:	102	%SS2:	101
%SS3:	80		

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/24/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/24/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1011599

Lab ID	1011599-002B
Client ID	MW-2
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:	118	%SS2:	100
%SS3:	98		

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/24/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/24/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1011599

Lab ID	1011599-003B
Client ID	MW-3
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)	3.0	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	0.68	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	2.0	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)	2.2	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	6.6	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	0.84	1.0	0.5

Surrogate Recoveries (%)

%SS1:	110	%SS2:	96
%SS3:	92		

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/24/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/24/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1011599

Lab ID	1011599-004B
Client ID	MW-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	2800	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<200	100	2.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	Chloroform	ND<50	100	0.5
Chloromethane	ND<50	100	0.5	2-Chlorotoluene	ND<50	100	0.5
4-Chlorotoluene	ND<50	100	0.5	Dibromochloromethane	ND<50	100	0.5
1,2-Dibromo-3-chloropropane	ND<20	100	0.2	1,2-Dibromoethane (EDB)	ND<50	100	0.5
Dibromomethane	ND<50	100	0.5	1,2-Dichlorobenzene	ND<50	100	0.5
1,3-Dichlorobenzene	ND<50	100	0.5	1,4-Dichlorobenzene	ND<50	100	0.5
Dichlorodifluoromethane	ND<50	100	0.5	1,1-Dichloroethane	ND<50	100	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5	1,1-Dichloroethene	ND<50	100	0.5
cis-1,2-Dichloroethene	ND<50	100	0.5	trans-1,2-Dichloroethene	ND<50	100	0.5
1,2-Dichloropropane	ND<50	100	0.5	1,3-Dichloropropane	ND<50	100	0.5
2,2-Dichloropropane	ND<50	100	0.5	1,1-Dichloropropene	ND<50	100	0.5
cis-1,3-Dichloropropene	ND<50	100	0.5	trans-1,3-Dichloropropene	ND<50	100	0.5
Diisopropyl ether (DIPE)	ND<50	100	0.5	Ethylbenzene	550	100	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5	Freon 113	ND<1000	100	10
Hexachlorobutadiene	ND<50	100	0.5	Hexachloroethane	ND<50	100	0.5
2-Hexanone	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	ND<50	100	0.5
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5
Naphthalene	210	100	0.5	n-Propyl benzene	ND<50	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	ND<50	100	0.5
Toluene	1500	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	790	100	0.5	1,3,5-Trimethylbenzene	210	100	0.5
Vinyl Chloride	ND<50	100	0.5	Xylenes	3100	100	0.5

Surrogate Recoveries (%)

%SS1:	109	%SS2:	102
%SS3:	98		

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/22/10-11/24/10
Oakland, CA 94606	Client P.O.:	Date Analyzed 11/22/10-11/24/10

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

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1011599

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
1011599-001A	MW-1	W	ND	1	101	
1011599-002A	MW-2	W	ND	1	99	b1
1011599-003A	MW-3	W	3700	1	95	d2,d9
1011599-004A	MW-4	W	26,000	100	111	d1

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

* water and vapor samples are reported in ug/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 McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d1) weakly modified or unmodified gasoline is significant
d2) heavier gasoline range compounds are significant (aged gasoline?)
d9) no recognizable pattern

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

Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 11/19/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 11/22/10-11/23/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1011599

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1011599-001A	MW-1	W	ND	ND	1	116	
1011599-002A	MW-2	W	ND	ND	1	115	b1
1011599-003A	MW-3	W	2100	ND	1	115	e4
1011599-004A	MW-4	W	2800	ND	1	85	e4,e2

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.

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

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

b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern
e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54559 WorkOrder 1011599

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1011578-001A**

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	81.6	77.6	5.09	85.8	87.9	2.44	70 - 130	30	70 - 130	30
Benzene	ND	10	112	105	6.63	116	117	0.940	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	75.6	75	0.716	72.6	80.3	10.1	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	104	98.8	5.27	106	108	1.48	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	92.7	89.1	3.90	92.5	96.8	4.57	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	92.6	90.2	2.61	95.9	98.3	2.40	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	107	100	6.48	112	113	1.20	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	110	105	4.52	113	114	0.991	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	96.7	92.6	4.25	102	103	1.79	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	105	102	2.66	109	113	3.41	70 - 130	30	70 - 130	30
Toluene	ND	10	105	98.5	6.58	107	110	2.32	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	99.6	92.5	7.10	111	112	0.787	70 - 130	30	70 - 130	30
%SS1:	121	25	110	110	0	113	111	2.06	70 - 130	30	70 - 130	30
%SS2:	101	25	99	100	0.151	97	98	0.963	70 - 130	30	70 - 130	30
%SS3:	95	2.5	94	95	1.47	95	97	1.97	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 54559 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011599-001B	11/18/10 1:42 PM	11/24/10	11/24/10 9:22 PM	1011599-002B	11/18/10 1:30 PM	11/24/10	11/24/10 2:42 AM
1011599-003B	11/18/10 1:12 PM	11/24/10	11/24/10 11:19 PM	1011599-004B	11/18/10 1:50 PM	11/24/10	11/24/10 12:34 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.

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.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 54531 | WorkOrder 1011599

EPA Method SW8015Bm | **Extraction SW5030B** | **Spiked Sample ID: 1011582-002B**

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)£	ND	60	93.5	110	16.0	92.8	94.2	1.41	70 - 130	20	70 - 130	20
MTBE	ND	10	103	98.6	3.85	99.8	101	1.17	70 - 130	20	70 - 130	20
Benzene	ND	10	93.3	97.2	4.16	93.8	95	1.22	70 - 130	20	70 - 130	20
Toluene	ND	10	94	94.6	0.638	91.7	93	1.43	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.3	95.8	2.66	92.2	94.2	2.13	70 - 130	20	70 - 130	20
Xylenes	ND	30	96	98.1	2.12	95.2	97.3	2.20	70 - 130	20	70 - 130	20
%SS:	99	10	95	96	0.615	94	95	0.508	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 54531 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011599-001A	11/18/10 1:42 PM	11/22/10	11/22/10 11:52 PM	1011599-002A	11/18/10 1:30 PM	11/23/10	11/23/10 6:06 AM
1011599-003A	11/18/10 1:12 PM	11/23/10	11/23/10 6:37 AM	1011599-004A	11/18/10 1:50 PM	11/24/10	11/24/10 6:35 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.

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.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54541 WorkOrder 1011599

EPA Method SW8015B **Extraction SW3510C** **Spiked Sample ID: N/A**

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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	89.7	89	0.838	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	89	86	3.59	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 54541 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011599-001A	11/18/10 1:42 PM	11/19/10	11/23/10 7:12 AM	1011599-002A	11/18/10 1:30 PM	11/19/10	11/23/10 6:03 AM
1011599-003A	11/18/10 1:12 PM	11/19/10	11/23/10 8:22 AM	1011599-004A	11/18/10 1:50 PM	11/19/10	11/22/10 8:51 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.

DHS ELAP Certification 1644

QA/QC Officer

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1011599

SAMPLES: MW-4

MATRIX: Groundwater

Analysis	E200.8 – Lead (TOTAL)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	See notes
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1.
- According to lab report, MS/MSD is “not applicable to this method”.
- During next sampling event, samples should be filtered in the field using a 0.45 micron filter and analyzed for dissolved metals.

Summary:

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

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Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Reported: 11/30/10
Oakland, CA 94606	Client P.O.:	Date Completed: 12/03/10

WorkOrder: 1011599 A

December 06, 2010

Dear Ian:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **SCS370; 2700 23rd Ave,**
2) A QC report for the above sample,
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.
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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:** 2700 23rd Ave.
Project Location: Oakland, CA
Sampler Signature: [signature]

Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE; TPH as Diesel (8015) + G + MO; 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 (Cl Pesticides); EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners; EPA 507 / 8141 (NP Pesticides); EPA 515 / 8151 (Acidic Cl 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)

Other: Filter sample for DISSOLVED metals analysis; Total Pb added 12/1/10 5 day

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

SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	ICE	HCL	HNO3	Other	TPH as Diesel (8015) + G + MO	EPA 524.2 / 624 / 8260 (VOCs)	Total Pb added 12/1/10 5 day	Comments
MW-1		11.18.10	1:42	3		X					X	X			X	X		
MW-2		↓	1:30	3		X					X	X			X	X		
MW-3		↓	1:12	3		X					X	X			X	X		
MW-4		↓	1:50	3		X					X	X			X	X	⊗	

**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:	Date:	Time:	Received By:
[signature]	11/19	1330	[illegible]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 34
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION ____ pH<2 ____

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011599 A **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

Email: js@schutze-inc.com, ian@schutze-inc.co
cc:
PO:
ProjectNo: SCS370; 2700 23rd Ave

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

Requested TAT: 5 days
Date Received: **11/19/2010**
Date Add-On: **12/01/2010**
Date Printed: **12/01/2010**

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
1011599-004	MW-4	Water	11/18/2010 13:50	☐	A											

Test Legend:

1	PBMS_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: Total Pb added 12/1/10 5 day per D.H.

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.

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

Schutze & Associates	Client Project ID: SCS370; 2700 23rd Ave	Date Sampled: 11/18/10
		Date Received: 11/19/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/01/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/02/10

Lead by ICP-MS*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1011599

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1011599-004A	MW-4	W	TOTAL	12	1	106	

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

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

means surrogate diluted out of range; ND means not detected above the reporting limit/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

DHS ELAP Certification 1644

AR Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54717 WorkOrder 1011599

EPA Method E200.8 **Extraction E200.8** **Spiked Sample ID: 1011766-002A**

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
Lead	4.6	10	N/A	N/A	N/A	98	99.2	1.28	N/A	N/A	85 - 115	20
%SS:	101	750	101	102	1.22	102	102	0	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 54717 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011599-004A	11/18/10 1:50 PM	12/01/10	12/02/10 6:16 PM				

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

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

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

N/A = not applicable to this method.

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

DHS ELAP Certification 1644

QA/QC Officer

Laboratory Results:

Soil (Test Pit Excavation)

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1012083

SAMPLES: A-5.5', A-W-4', A-S-4', A-E-4', B-5', B-W-3.5', B-E-3.5', B-N-3.5', P-A-2.5', P-B-1', P-C-2', P-D-2', P-E-2.5'

MATRIX: Soil

Analysis	SW8260B – VOCS
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1 for all samples.
- MS/MSD from WO# 1011461.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1012083

SAMPLES: A-5.5', A-W-4', A-S-4', A-E-4', B-5', B-W-3.5', B-E-3.5', B-N-3.5', P-A-2.5', P-B-1', P-C-2', P-D-2', P-E-2.5'

MATRIX: Soil

Analysis	SW8015Bm TPH-g (C6-C12)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1 for all samples.
- MS/MSD from WO# 1012083.
- For sample P-E-2.5', "strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram".

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1012083

SAMPLES: A-5.5', A-W-4', A-S-4', A-E-4', B-5', B-W-3.5', B-E-3.5', B-N-3.5', P-A-2.5', P-B-1', P-C-2', P-D-2', P-E-2.5'

MATRIX: Soil

Analysis	SW6010B LUFT 5 Metals (TOTAL)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1 for all samples.

Summary:

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

LEVEL III Data Validation Report

PROJECT: 2700 23rd Avenue

LABORATORY: McCampbell Analytical, Inc., Pittsburg, CA

LAB REPORT NUMBER: 1012083

SAMPLES: A-5.5', A-W-4', A-S-4', A-E-4', B-5', B-W-3.5', B-E-3.5', B-N-3.5', P-A-2.5', P-B-1', P-C-2', P-D-2', P-E-2.5'

MATRIX: Soil

Analysis	SW8015B – TPH-d (C10-C23) &TPH-mo(C18-C36)
Holding Time	✓
Surrogate Recovery	✓
MS/MSD	✓
LCS (Blank Spike)	✓
Method Blanks	✓
Field Duplicates	NA
Trip/Field/Equipment Blanks	NA
Reporting Limits	✓

✓ – QC criteria were met.

Notes:

- RLs<ESLs, DF=1 for all samples.
- MS/MSD from WO# 1012046.
- For samples A-E-4', B-W-3.5' and P-B-1', "diesel range compounds are significant; no recognizable pattern".
- For samples B-E-3.5' and P-E-2.5', "oil range copounds are significant".
- For sample P-A-2.5', "Stoddard solvent/mineral spirit".

Summary:

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10-12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Reported: 12/09/10
Oakland, CA 94606	Client P.O.:	Date Completed: 12/09/10

WorkOrder: 1012083

December 09, 2010

Dear Ian:

Enclosed within are:

1) The results of the **13** analyzed samples from your project: **#SCS370; 2700 23rd Ave,**
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

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1012083

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:** 2700 23rd Ave

Project Location: Oakland, CA

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) +G+MO	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 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl 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	Other	Comments
A-5.5'		11.29.10		1			X				X					X									X				X				
A-W-4'		12.1.10		1			X				X					X									X				X				
A-S-4'		12.1.10		1			X				X					X									X				X				
A-E-4'		12.1.10		1			X				X					X									X				X				
B-5'		11.29.10		1			X				X					X									X				X				
B-W-3.5'		11.29.10		1			X				X					X									X				X				
B-E-3.5'		11.29.10		1			X				X					X									X				X				
B-N-3.5'		11.29.10		1			X				X					X									X				X				
P-A-2.5'		11.30.10		1			X				X					X									X				X				
P-B-1'		11.30.10		1			X				X					X									X				X				
P-C-2'		11.30.10		1			X				X					X									X				X				

Analysis Request | **Other** | **Comments**

Comments: **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:	Date:	Time:	Received By:
	12/2/10	1800	
Relinquished By:	Date:	Time:	Received By:
	12/2/10	1810	
Relinquished By:	Date:	Time:	Received By:

ICE/T 5.8°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
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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: 2700 23rd Ave

Project Location: Oakland, CA

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + G + MO	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOC's)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOC's)	EPA 525.2 / 625 / 8270 (SVOC's)	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	Other	Comments
P-D-2'		11.30.10		1			X				X				X	X									X				X					
P-E-2.5'		11.30.10		1			X				X				X	X									X				X					

**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:	Date:	Time:	Received By:
	12/2/10	1600	
Relinquished By:	Date:	Time:	Received By:
	12/3/10	1800	Julia Nenegas
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION		pH<2		

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1012083 **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

Email: js@schutze-inc.com, ian@schutze-inc.co
cc:
PO:
ProjectNo: #SCS370; 2700 23rd Ave

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

Requested TAT: 5 days

Date Received: **12/02/2010**
Date Printed: **12/02/2010**

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
1012083-001	A-5.5'	Soil	11/29/2010	☐	A	A	A									
1012083-002	A-W-4'	Soil	12/1/2010	☐	A	A	A									
1012083-003	A-5-4'	Soil	12/1/2010	☐	A	A	A									
1012083-004	A-E-4'	Soil	12/1/2010	☐	A	A	A									
1012083-005	B-5'	Soil	11/29/2010	☐	A	A	A									
1012083-006	B-W-3.5'	Soil	11/29/2010	☐	A	A	A									
1012083-007	B-E-3.5'	Soil	11/29/2010	☐	A	A	A									
1012083-008	B-N-3.5'	Soil	11/29/2010	☐	A	A	A									
1012083-009	P-A-2.5'	Soil	11/30/2010	☐	A	A	A									
1012083-010	P-B-1'	Soil	11/30/2010	☐	A	A	A									
1012083-011	P-C-2'	Soil	11/30/2010	☐	A	A	A									
1012083-012	P-D-2'	Soil	11/30/2010	☐	A	A	A									
1012083-013	P-E-2.5'	Soil	11/30/2010	☐	A	A	A									

Test Legend:

1	8260B_S	2	G-MBTEX_S	3	LUFT_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A contain testgroup.

Prepared by:

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.

McCampbell Analytical, Inc.
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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Schutze & Associates**
Date and Time Received: **12/2/2010 8:24:37 PM**

Project Name: **#SCS370; 2700 23rd Ave**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1012083** Matrix Soil
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: 5.8°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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"When Quality Counts"

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

Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-001A
Client ID	A-5.5'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	105	%SS2:	107
%SS3:	90		

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

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

Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-002A
Client ID	A-W-4'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	105	%SS2:	114
%SS3:	94		

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

McCampbell Analytical, Inc.
"When Quality Counts"

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

Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-003A
Client ID	A-5-4'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	103	%SS2:	114
%SS3:	89		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-004A
Client ID	A-E-4'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	103	%SS2:	113
%SS3:	92		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-005A
Client ID	B-5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.085	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	113
%SS3:	93		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-006A
Client ID	B-W-3.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.066	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	114
%SS3:	96		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-007A
Client ID	B-E-3.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.080	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	105	%SS2:	112
%SS3:	83		

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

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-008A
Client ID	B-N-3.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.068	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	105	%SS2:	111
%SS3:	90		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/30/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-009A
Client ID	P-A-2.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.091	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	0.061	1.0	0.005	sec-Butyl benzene	0.016	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	0.0056	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	0.068	1.0	0.005	n-Propyl benzene	0.035	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	108	%SS2:	113
%SS3:	96		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/30/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-010A
Client ID	P-B-1'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	0.083	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	107	%SS2:	116
%SS3:	97		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/30/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-011A
Client ID	P-C-2'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	105	%SS2:	117
%SS3:	101		

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
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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/30/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-012A
Client ID	P-D-2'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	106	%SS2:	113
%SS3:	96		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/30/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/06/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1012083

Lab ID	1012083-013A
Client ID	P-E-2.5'
Matrix	Soil

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

Surrogate Recoveries (%)

%SS1:	106	%SS2:	118
%SS3:	96		

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

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10-12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed 12/03/10-12/04/10

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

Extraction method SW5030B Analytical methods SW8015Bm Work Order: 1012083

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	0.005
1012083-001A	A-5.5'	S	ND	1	92	
1012083-002A	A-W-4'	S	ND	1	98	
1012083-003A	A-5-4'	S	ND	1	88	
1012083-004A	A-E-4'	S	ND	1	88	
1012083-005A	B-5'	S	ND	1	94	
1012083-006A	B-W-3.5'	S	ND	1	86	
1012083-007A	B-E-3.5'	S	ND	1	88	
1012083-008A	B-N-3.5'	S	ND	1	87	
1012083-009A	P-A-2.5'	S	4.5	1	85	d7
1012083-010A	P-B-1'	S	ND	1	82	
1012083-011A	P-C-2'	S	ND	1	90	
1012083-012A	P-D-2'	S	ND	1	87	
1012083-013A	P-E-2.5'	S	ND	1	77	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	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 McCampbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10-12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/08/10

LUFT 5 Metals*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1012083

Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS	Comments
001A	A-5.5'	S	TOTAL	ND	34	8.3	28	26	1	102	
002A	A-W-4'	S	TOTAL	ND	40	10	38	30	1	106	
003A	A-5-4'	S	TOTAL	ND	49	11	39	32	1	109	
004A	A-E-4'	S	TOTAL	ND	50	36	58	50	1	106	
005A	B-5'	S	TOTAL	ND	45	160	33	35	1	107	
006A	B-W-3.5'	S	TOTAL	ND	38	7.7	43	38	1	103	
007A	B-E-3.5'	S	TOTAL	ND	49.93	28	53	83	1	106	
008A	B-N-3.5'	S	TOTAL	ND	48	6.7	59	50	1	108	
009A	P-A-2.5'	S	TOTAL	ND	45	16	42	45	1	106	
010A	P-B-1'	S	TOTAL	ND	35	64	49	1800	1	97	
011A	P-C-2'	S	TOTAL	ND	37	ND	35	26	1	104	
012A	P-D-2'	S	TOTAL	ND	40	ND	42	27	1	109	
013A	P-E-2.5'	S	TOTAL	ND	36	8.0	41	530	1	104	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	NA	NA	NA	NA	NA
	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit/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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Schutze & Associates	Client Project ID: #SCS370; 2700 23rd Ave	Date Sampled: 11/29/10-12/01/10
		Date Received: 12/02/10
2100 Embarcadero, Suite #100	Client Contact: Ian Sutherland	Date Extracted: 12/02/10
Oakland, CA 94606	Client P.O.:	Date Analyzed: 12/04/10-12/09/10

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550B Analytical methods: SW8015B Work Order: 1012083

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1012083-001A	A-5.5'	S	ND	ND	1	109	
1012083-002A	A-W-4'	S	ND	ND	1	110	
1012083-003A	A-5-4'	S	ND	ND	1	107	
1012083-004A	A-E-4'	S	1.2	ND	1	114	e2
1012083-005A	B-5'	S	ND	ND	1	109	
1012083-006A	B-W-3.5'	S	1.9	ND	1	111	e2
1012083-007A	B-E-3.5'	S	3.6	53	1	114	e7
1012083-008A	B-N-3.5'	S	ND	ND	1	110	
1012083-009A	P-A-2.5'	S	6.4	ND	1	110	e11
1012083-010A	P-B-1'	S	3.1	ND	1	109	e2
1012083-011A	P-C-2'	S	ND	ND	1	112	
1012083-012A	P-D-2'	S	ND	ND	1	112	
1012083-013A	P-E-2.5'	S	2.2	22	1	108	e7

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/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 McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 54701 | WorkOrder 1012083

EPA Method SW8260B | **Extraction SW5030B** | **Spiked Sample ID: 1011461-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	74.4	74	0.559	76.7	73.9	3.70	70 - 130	30	70 - 130	30
Benzene	ND	0.050	107	108	0.390	112	106	5.09	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	85.2	83.8	1.63	85.2	83.8	1.63	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	105	0.451	107	102	4.80	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	93	92	1.12	93.5	90	3.74	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	100	101	0.675	104	98.7	5.14	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	109	110	0.958	113	106	6.67	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	102	103	0.399	106	102	4.32	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	90.7	91.1	0.545	93.8	90.7	3.40	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	101	101	0	105	100	4.01	70 - 130	30	70 - 130	30
Toluene	ND	0.050	110	110	0	112	107	5.05	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	96.3	94.6	1.88	100	92.8	7.69	70 - 130	30	70 - 130	30
%SS1:	81	0.13	98	99	0.133	101	101	0	70 - 130	30	70 - 130	30
%SS2:	115	0.13	104	105	0.932	103	104	1.48	70 - 130	30	70 - 130	30
%SS3:	112	0.013	102	101	0.244	102	101	0.519	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 54701 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-001A	11/29/10	12/02/10	12/04/10 2:10 AM	1012083-002A	12/01/10	12/02/10	12/04/10 2:49 AM
1012083-003A	12/01/10	12/02/10	12/04/10 3:28 AM	1012083-004A	12/01/10	12/02/10	12/04/10 4:06 AM
1012083-005A	11/29/10	12/02/10	12/04/10 4:45 AM	1012083-006A	11/29/10	12/02/10	12/04/10 5:24 AM
1012083-007A	11/29/10	12/02/10	12/06/10 6:28 PM	1012083-008A	11/29/10	12/02/10	12/06/10 7:06 PM
1012083-009A	11/30/10	12/02/10	12/06/10 7:45 PM	1012083-010A	11/30/10	12/02/10	12/06/10 8:23 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.

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

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 54786 | WorkOrder 1012083

EPA Method SW8260B | **Extraction SW5030B** | **Spiked Sample ID: 1012083-013A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	73.1	72.1	1.43	75.3	72.8	3.46	70 - 130	30	70 - 130	30
Benzene	ND	0.050	109	106	2.77	110	107	2.69	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	76.9	79.4	3.17	85.4	84.9	0.576	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	108	103	4.27	107	103	3.86	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	91.5	87.2	4.81	93.1	90.7	2.52	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	100	98.4	1.74	101	99.6	1.82	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	110	107	2.58	112	108	4.41	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	104	101	3.56	104	101	2.73	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	91	88.8	2.36	91.9	90.3	1.76	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	99.1	97.8	1.33	103	101	1.98	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	107	4.55	111	108	3.12	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	98.9	96.2	2.77	97.6	95.4	2.31	70 - 130	30	70 - 130	30
%SS1:	106	0.13	99	100	0.904	101	102	0.805	70 - 130	30	70 - 130	30
%SS2:	118	0.13	105	104	0.757	105	104	0.955	70 - 130	30	70 - 130	30
%SS3:	96	0.013	99	98	0.534	102	102	0	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 54786 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-011A	11/30/10	12/02/10	12/06/10 9:02 PM	1012083-012A	11/30/10	12/02/10	12/06/10 9:41 PM
1012083-013A	11/30/10	12/02/10	12/06/10 10:19 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.

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

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 54781 | WorkOrder 1012083

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1012080-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	107	107	0	106	113	6.23	70 - 130	20	70 - 130	20
MTBE	ND	0.10	101	111	9.74	105	112	6.14	70 - 130	20	70 - 130	20
Benzene	ND	0.10	90.9	94.9	4.31	96.1	92.8	3.53	70 - 130	20	70 - 130	20
Toluene	ND	0.10	88.4	92.4	4.48	93.6	90.2	3.75	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89.4	93.5	4.48	94.3	92.4	2.08	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	88.5	92.5	4.36	93.9	92.1	1.96	70 - 130	20	70 - 130	20
%SS:	83	0.10	81	89	9.08	82	86	5.28	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 54781 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-001A	11/29/10	12/02/10	12/04/10 3:35 AM	1012083-002A	12/01/10	12/02/10	12/04/10 4:05 AM
1012083-003A	12/01/10	12/02/10	12/03/10 4:36 PM	1012083-004A	12/01/10	12/02/10	12/04/10 2:04 AM
1012083-005A	11/29/10	12/02/10	12/04/10 6:35 AM	1012083-006A	11/29/10	12/02/10	12/04/10 2:37 AM
1012083-007A	11/29/10	12/02/10	12/04/10 3:11 AM	1012083-008A	11/29/10	12/02/10	12/04/10 3:44 AM
1012083-009A	11/30/10	12/02/10	12/04/10 4:17 AM	1012083-010A	11/30/10	12/02/10	12/04/10 5:56 AM
1012083-011A	11/30/10	12/02/10	12/04/10 6:29 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.

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.

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 54785 | WorkOrder 1012083

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1012083-013A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	89.1	87.1	2.19	93.1	85	9.18	70 - 130	20	70 - 130	20
MTBE	ND	0.10	97.2	89.9	7.73	99.4	92.2	7.53	70 - 130	20	70 - 130	20
Benzene	ND	0.10	89.9	92.4	2.76	93.5	86.2	8.05	70 - 130	20	70 - 130	20
Toluene	ND	0.10	88.1	89.9	2.01	91.2	84.4	7.78	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89.3	90.8	1.65	92.5	85.7	7.57	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	92.3	93.5	1.27	95.4	88.5	7.43	70 - 130	20	70 - 130	20
%SS:	77	0.10	99	105	6.12	102	97	4.63	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 54785 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-012A	11/30/10	12/02/10	12/04/10 7:35 AM	1012083-013A	11/30/10	12/02/10	12/04/10 8:08 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.

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.

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1012083

EPA Method SW6010B	Extraction SW3050B	BatchID: 54767	Spiked Sample ID: 1012054-002A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	96.5	95	1.51	10	92.8	106	13.4	75 - 125	25	75 - 125	25
Chromium	5.5	50	99.1	97.1	1.88	10	101	107	5.69	75 - 125	25	75 - 125	25
Lead	ND	50	93.6	94.2	0.639	10	81.4	101	21.8	75 - 125	25	75 - 125	25
Nickel	2.8	50	96.8	96.7	0.0488	10	94.2	106	12.0	75 - 125	25	75 - 125	25
Zinc	ND	500	103	104	0.135	100	104	124	17.6	75 - 125	25	75 - 125	25
%SS:	99	250	98	98	0	250	107	104	2.85	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 54767 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-001A	11/29/10	12/02/10	12/08/10 12:32 AM	1012083-002A	12/01/10	12/02/10	12/08/10 12:35 AM
1012083-003A	12/01/10	12/02/10	12/08/10 12:38 AM	1012083-004A	12/01/10	12/02/10	12/08/10 12:42 AM
1012083-005A	11/29/10	12/02/10	12/08/10 12:45 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.

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QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1012083

EPA Method SW6010B	Extraction SW3050B				BatchID: 54787			Spiked Sample ID: 1012083-012A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	96.8	99.4	2.65	10	81	82.5	1.87	75 - 125	25	75 - 125	25
Chromium	40	50	104	103	0.354	10	85.7	91.2	6.19	75 - 125	25	75 - 125	25
Lead	ND	50	108	109	1.80	10	94.8	86.2	9.53	75 - 125	25	75 - 125	25
Nickel	42	50	98.5	96.5	1.10	10	84.9	85.1	0.235	75 - 125	25	75 - 125	25
Zinc	27	500	111	110	1.12	100	97.2	96.7	0.490	75 - 125	25	75 - 125	25
%SS:	109	250	104	102	2.14	250	100	106	5.04	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 54787 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-006A	11/29/10	12/02/10	12/08/10 12:48 AM	1012083-007A	11/29/10	12/02/10	12/08/10 12:52 AM
1012083-008A	11/29/10	12/02/10	12/08/10 1:02 AM	1012083-009A	11/30/10	12/02/10	12/08/10 1:05 AM
1012083-010A	11/30/10	12/02/10	12/08/10 1:08 AM	1012083-011A	11/30/10	12/02/10	12/08/10 1:12 AM
1012083-012A	11/30/10	12/02/10	12/08/10 1:15 AM	1012083-013A	11/30/10	12/02/10	12/08/10 1:25 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.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 54758 WorkOrder 1012083

EPA Method SW8015B **Extraction SW3550B** **Spiked Sample ID: 1012046-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	40	110	110	0	92.9	93.1	0.194	70 - 130	30	70 - 130	30
%SS:	109	25	109	109	0	81	80	0.814	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 54758 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1012083-001A	11/29/10	12/02/10	12/06/10 6:04 PM	1012083-002A	12/01/10	12/02/10	12/04/10 4:22 PM
1012083-003A	12/01/10	12/02/10	12/04/10 5:33 PM	1012083-004A	12/01/10	12/02/10	12/09/10 2:28 PM
1012083-005A	11/29/10	12/02/10	12/04/10 7:55 PM	1012083-006A	11/29/10	12/02/10	12/04/10 6:44 PM
1012083-007A	11/29/10	12/02/10	12/06/10 8:31 PM	1012083-008A	11/29/10	12/02/10	12/04/10 2:00 PM
1012083-009A	11/30/10	12/02/10	12/08/10 6:20 AM	1012083-010A	11/30/10	12/02/10	12/05/10 2:59 AM
1012083-011A	11/30/10	12/02/10	12/05/10 1:49 AM	1012083-012A	11/30/10	12/02/10	12/05/10 12:38 AM
1012083-013A	11/30/10	12/02/10	12/08/10 2:29 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.

DHS ELAP Certification 1644

QA/QC Officer

APPENDIX C

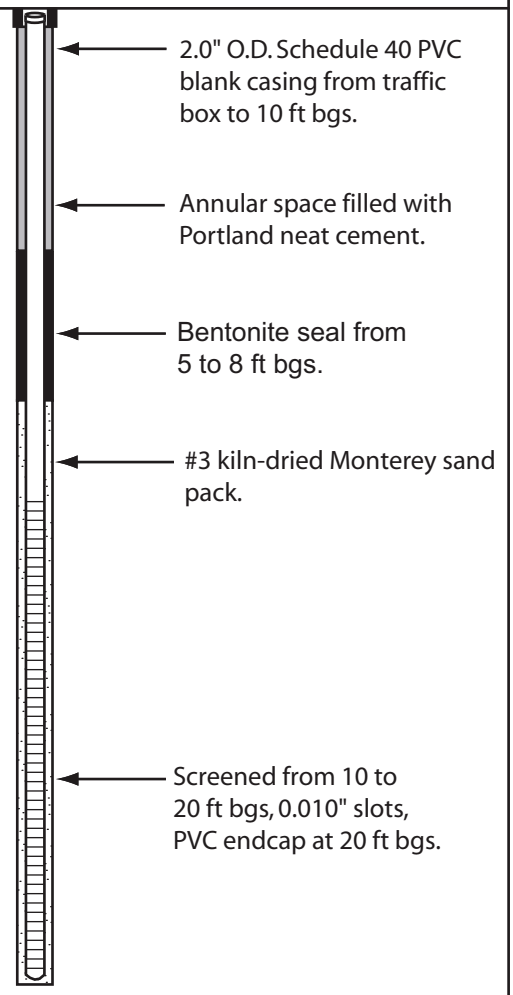
WELL LOGS

SCHUTZE & Associates

WELL LOG

Driller/Rig: EGI, auger	Date Drilled: 10/27/2010	Logged by: IS
Diameter: 8" hollow-stem	Boring Number: MW-1	

Soil Sample ID	Groundwater	Depth (ft bgs)	PID Reading (ppm)	Description of Soil Recovered in Split Spoon Sampler
MW-1-3.5'		2, 4	0.8	-Dark-brown sillty-clay, very slightly moist
MW-1-8.5'	▼	6, 8	0.5	-Yellowish-brown silty-clay, very slightly moist
MW-1-13.5'		10, 12, 14	0.3	-Yellowish-brown silty-clay, very slightly moist
MW-1-18.5'		16, 18, 20	0.3	-Yellowish-brown silty-clay, very slightly moist
		22, 24		



Notes: Soil samples collected in split-spoon sampler lined with brass sleeves (collected at 5 ft intervals); groundwater exists in a confined saturated lens between approximately 13.5 and 18.5 ft bgs (based on previous subsurface investigation); highest PID reading: 0.8 ppm; no contamination observed.

▼ = Approximate potentiometric surface (measured on 11/17/2010)

ft bgs = feet below ground surface

Well Log
Ed's Liquor
2700 23rd Avenue
Oakland, California

SCHUTZE & Associates, Inc.
Project No: SCS370.3
March 2011

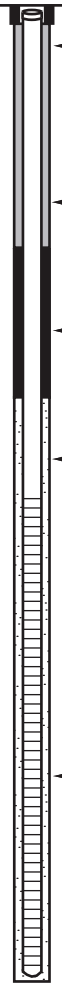
SCHUTZE & Associates

WELL LOG

Driller/Rig: EGI, auger	Date Drilled: 10/27/2010	Logged by: IS
Diameter: 8" hollow-stem	Boring Number: MW-2	

Soil Sample ID	Groundwater	Depth (ft bgs)	PID Reading (ppm)	Description of Soil Recovered in Split Spoon Sampler
MW-2-3.5'		2, 4	0.5	-Reddish-brown fill material, very slightly moist
	▼	6, 8		
MW-2-8.5'			0.6	-Gray-brown silty-clay, very slightly moist
		10, 12		
MW-2-13.5'		14	1.7	-Gray-brown silty-clay, very slightly moist
		16, 18		
MW-2-18.5'			0.7	-Yellowish-brown silty-clay, very slightly moist
		20, 22, 24		

Well Construction Details



- 2.0" O.D. Schedule 40 PVC blank casing from traffic box to 10 ft bgs.
- Annular space filled with Portland neat cement.
- Bentonite seal from 5 to 8 ft bgs.
- #3 kiln-dried Monterey sand pack.
- Screened from 10 to 20 ft bgs, 0.010" slots, PVC endcap at 20 ft bgs.

Notes: Soil samples collected in split-spoon sampler lined with brass sleeves (collected at 5 ft intervals); groundwater exists in a confined saturated lens between approximately 13.5 and 18.5 ft bgs (based on previous subsurface investigation); highest PID reading: .7 ppm; no contamination observed.

▼ = Approximate potentiometric surface (measured on 11/17/2010)

ft bgs = feet below ground surface

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Oakland, California

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Project No: SCS370.3
March 2011

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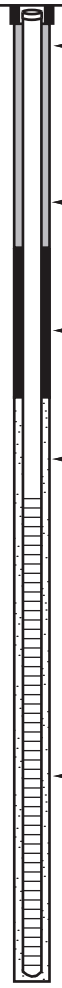
WELL LOG

Driller/Rig: EGI, auger	Date Drilled: 10/27/2010	Logged by: IS
Diameter: 8" hollow-stem	Boring Number: MW-3	

Soil Sample ID	Groundwater	Depth (ft bgs)	PID Reading (ppm)	Description of Soil Recovered in Split Spoon Sampler
MW-3-3.5'	▼	2	0.3	-Reddish-brown fill material, slightly moist
		4		
		6		
MW-3-8.5'		8	18.9	-Gray silty-clay, saturated, near sewer line, odor
		10		
		12		
MW-3-13.5'		14	2.3	-Yellowish-brown silty-clay, very slightly moist
		16		
MW-3-18.5'		18	2.0	-Dark-brown silty-clay, moist
		20		
		22		
		24		

Well Construction Details



- 2.0" O.D. Schedule 40 PVC blank casing from traffic box to 10 ft bgs.
- Annular space filled with Portland neat cement.
- Bentonite seal from 5 to 8 ft bgs.
- #3 kiln-dried Monterey sand pack.
- Screened from 10 to 20 ft bgs, 0.010" slots, PVC endcap at 20 ft bgs.

Notes: Soil samples collected in split-spoon sampler lined with brass sleeves (collected at 5 ft intervals); groundwater exists in a confined saturated lens between approximately 13.5 and 18.5 ft bgs (based on previous subsurface investigation); highest PID reading: 18.9 ppm at 8.5 ft bgs; hydrocarbon odor observed at 8.5 ft bgs; perched water from leaking pipe?

▼ = Approximate potentiometric surface (measured on 11/17/2010)

ft bgs = feet below ground surface

Well Log
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Oakland, California

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Project No: SCS370.3
March 2011

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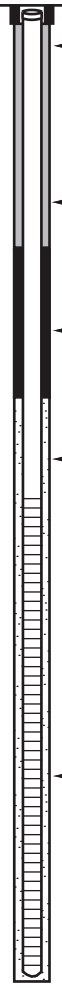
WELL LOG

Driller/Rig: EGI, auger	Date Drilled: 10/27/2010	Logged by: IS
Diameter: 8" hollow-stem	Boring Number: MW-4	

Soil Sample ID	Groundwater	Depth (ft bgs)	PID Reading (ppm)	Description of Soil Recovered in Split Spoon Sampler
MW-4-3.5'		2, 4	1,100	-Green fill material, strong hydrocarbon odor
	▼	6		
MW-4-8.5'		8	58.1	-Green silty-clay, hydrocarbon odor
		10, 12		
MW-4-13.5'		14	24.3	-Yellowish-brown silty-clay, very slightly moist
		16		
MW-4-18.5'		18	9.1	-Yellowish-brown silty-clay, moist
		20, 22, 24		

Well Construction Details



- 2.0" O.D. Schedule 40 PVC blank casing from traffic box to 10 ft bgs.
- Annular space filled with Portland neat cement.
- Bentonite seal from 5 to 8 ft bgs.
- #3 kiln-dried Monterey sand pack.
- Screened from 10 to 20 ft bgs, 0.010" slots, PVC endcap at 20 ft bgs.

Notes: Soil samples collected in split-spoon sampler lined with brass sleeves (collected at 5 ft intervals); groundwater exists in a confined saturated lens between approximately 13.5 and 18.5 ft bgs (based on previous subsurface investigation); highest PID reading: 1,100 ppm at 3.5 ft bgs; hydrocarbon odor observed to approximately 10 ft bgs.

▼ = Approximate potentiometric surface (measured on 11/18/2010)

ft bgs = feet below ground surface

Well Log
Ed's Liquor
2700 23rd Avenue
Oakland, California

SCHUTZE & Associates, Inc.
Project No: SCS370.3
March 2011

APPENDIX D

WELL SURVEY MAP

POINT TABLE				
NUMBER	LATITUDE	LONGITUDE	ELEVATION	DESCRIPTION
MW–1	37.7936166	–122.2264944	168.84'	Top Casing
MW–2	37.7937027	–122.2265138	170.33'	Top Casing
MW–3	37.7935888	–122.2263777	168.67'	Top Casing
MW–4	37.7935833	–122.2265444	168.40'	Top Casing

LEGEND

MW–1 ⊕ Existing Monitor Well

Utility Pole

Utility Cabinet

Datum Notes:

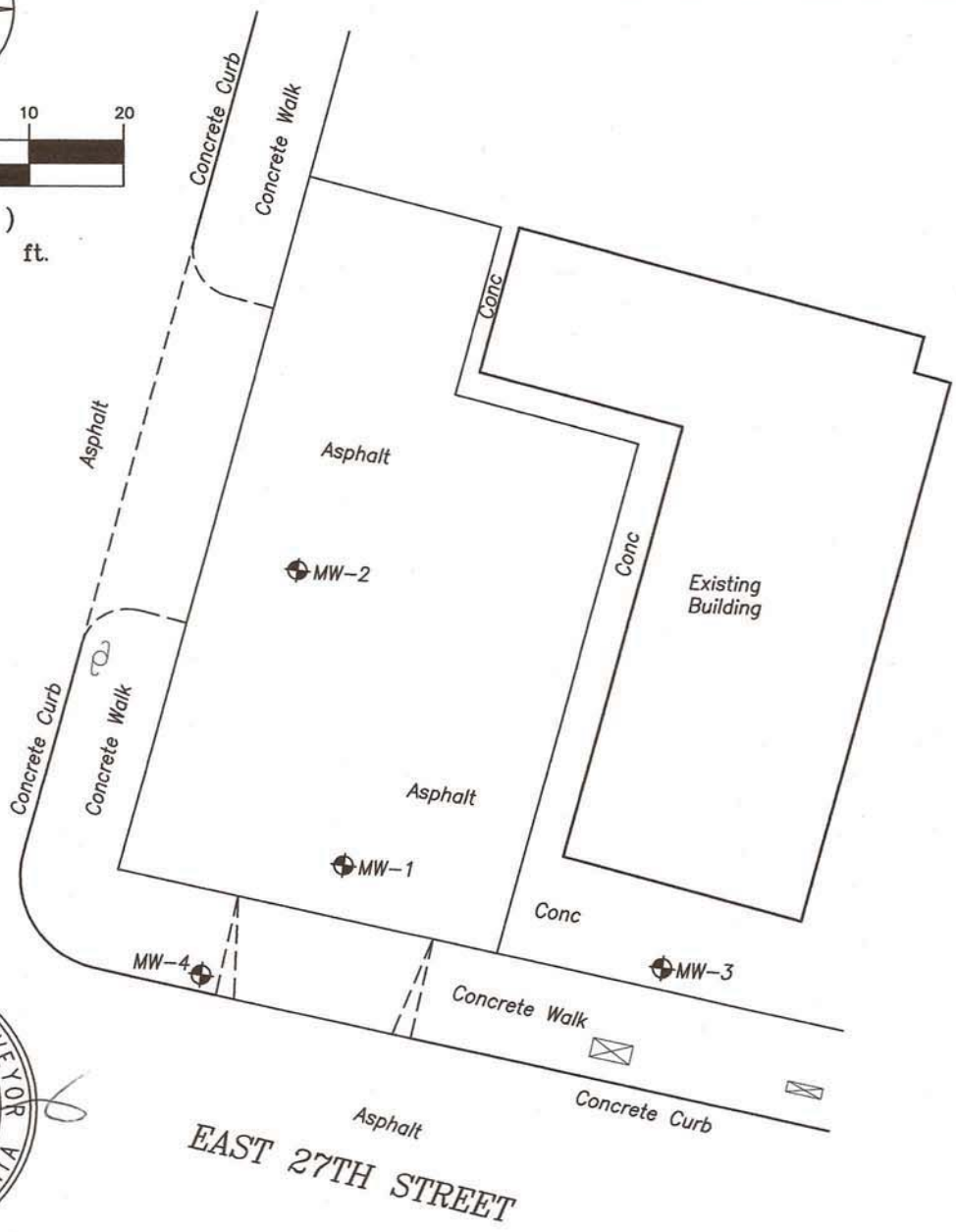
Horizontal positions shown hereon are based on the California Coordinate System NAD 83 Zone III (2002.00)

Elevations shown hereon are based on NAVD 88.

N

20 0 10 20

(IN FEET)
1 inch = 20 ft.



LICENSED LAND SURVEYOR
TY HAWKINS
L.S. 7973
STATE OF CALIFORNIA

Ty Hawkins LS 7973
3636 Oak Canyon Ln.
Vacaville CA. 95688
Ph. 707–974–9890
Fx. 707–447–7171

N W E S

Monitor Well Exhibit
2700 23RD Avenue
Oakland California

Date: 12/20/10	Scale: 1"=20'
Job #: 10076	
	Sheet 1 of 1

APPENDIX E

FIELD DATA SHEETS

Groundwater Sampling Field Data Sheet

Project Number	SCS370	Project Name	2700 23rd Ave.	Date	11/17-18/2010
Site Address	Oakland, CA			Weather	partly cloudy/dry
Well Id	MW-1	Well Diameter	2"	Technician	[illegible]

Observed Condition	Yes	No	Remarks/Explanation
Change in condition of well setting (concrete pad/adjacent asphalt)?		✓	
Well box raised above surrounding surface or flush with pavement?	✓		
Evidence of change in surface elevation or vertical movement?		✓	
Well cover secured in place?	✓		
Well box gasket intact and in-place?	✓		
Evidence of water ponding in or around well access box?		✓	
Well plug in place?	✓		
Hazardous materials stored within 100 feet of well?		✓	

Purging:

Start Time: ...
Depth to water (ft): 7.93
Well Depth (ft): 20'
Height of column (ft): 12.07
Volume in well (gal): 1.9

Purge Equipment	
Disposable bailer	
Submersible pump	✓
Peristaltic pump	
Other	

(0.16 gallon/foot for 2" well)
(0.65 gallon/foot for 4" well)
(1.47 gallon/foot for 6" well)

3 x well volume: 5.8
Amount purged (gal): 8
Did well dry out? No, but slowed to a trickle

Gallons	pH	EC	DO	T	TDS	ORP
8	6.86	0.25	7.1	23.0	1.6	+297

Sampling:

Sample ID: MW-1
Sample time: 1:42
Depth to water (ft): 13.45
Height of Column (ft): 6.55
≥80% initial column? No - 54%
Color: brown/turbid
Odor: no
Sheen: no

Sampling Equipment	
Disposable bailer	✓
Submersible pump	
Peristaltic pump	
Other	

Container (#/type): (2) 40-mL VOAs w/HCL, (1) 1-L Amber w/HCL
Analyses: VOCs, TPH-g, -d, -mo

Additional Notes:

- Collected ~~last~~ parameters after water slowed to a trickle for MW-1 → 4 (waited for flow cell to fill up)
- Not sure if U-22 was calibrated correctly based on TDS-EC relationship
- Not all wells → 80% recharge

Groundwater Sampling Field Data Sheet

Project Number	SCS370	Project Name	2700 23rd Ave	Date	11/17-18/2010
Site Address	Oakland, CA			Weather	partly cloudy / dry
Well Id	MW-2	Well Diameter	2"	Technician	

Observed Condition	Yes	No	Remarks/Explanation
Change in condition of well setting (concrete pad/adjacent asphalt)?		✓	
Well box raised above surrounding surface or flush with pavement?	✓		
Evidence of change in surface elevation or vertical movement?		✓	
Well cover secured in place?	✓		
Well box gasket intact and in-place?	✓		
Evidence of water ponding in or around well access box?		✓	
Well plug in place?	✓		
Hazardous materials stored within 100 feet of well?		✓	

Purging:

Start Time: ...
Depth to water (ft): 7.52
Well Depth (ft): 20
Height of column (ft): 12.48
Volume in well (gal): 2.0

Purge Equipment	
Disposable bailer	
Submersible pump	✓
Peristaltic pump	
Other	

(0.16 gallon/foot for 2" well)
(0.65 gallon/foot for 4" well)
(1.47 gallon/foot for 6" well)

3 x well volume: 6.0
Amount purged (gal): ~6
Did well dry out? No, but → trickle

Gallons	pH	EC	DO	T	TDS	ORP
6	6.08	0.29	7.0	22.6	1.8	+287

Sampling:

Sample ID: MW-2
Sample time: 1:30
Depth to water (ft): 11.75
Height of Column (ft): 8.25
≥80% initial column? No, 66%
Color: tan / turbid
Odor: no
Sheen: no

Sampling Equipment	
Disposable bailer	✓
Submersible pump	
Peristaltic pump	
Other	

Container (#/type): (2) 40-mL VOAs w/HCL, (1) 1-L Amber w/HCL
Analyses: VOCs, TPH-g, -d, -mo

Additional Notes:

Groundwater Sampling Field Data Sheet

Project Number	5C5370	Project Name	2700 23rd Ave.	Date	11/17-18/2010
Site Address	Oakland, CA			Weather	partly cloudy/dry
Well Id	MW-3	Well Diameter	2"	Technician	

Observed Condition	Yes	No	Remarks/Explanation
Change in condition of well setting (concrete pad/adjacent asphalt)?		✓	water below TOC
Well box raised above surrounding surface or flush with pavement?	✓		
Evidence of change in surface elevation or vertical movement?		✓	
Well cover secured in place?	✓		
Well box gasket intact and in-place?	✓		
Evidence of water ponding in or around well access box?	✓		
Well plug in place?	✓		
Hazardous materials stored within 100 feet of well?		✓	

Purging:

Start Time: ...

Depth to water (ft): 5.14

Well Depth (ft): 20

Height of column (ft): 14.86

Volume in well (gal): 2.4

Purge Equipment	
Disposable bailer	
Submersible pump	✓
Peristaltic pump	
Other	

(0.16 gallon/foot for 2" well)
(0.65 gallon/foot for 4" well)
(1.47 gallon/foot for 6" well)

3 x well volume: 7.1

Amount purged (gal): 11

Did well dry out? No, bt → trickle

Gallons	pH	EC	DO	T	TDS	ORP
11	6.34	42	8.5	21.9	0.27	+28

Sampling:

Sample ID: MW-3

Sample time: 1:12

Depth to water (ft): 5.10'

Height of Column (ft): 14.9'

≥80% initial column? yes

Color: clear

Odor: no

Sheen: no

Sampling Equipment	
Disposable bailer	✓
Submersible pump	
Peristaltic pump	
Other	

Container (#/type): (2) 40-mL VOAs w/HCl (1) 1-L Amber w/HCl

Analyses: VOCs, TPH-g, -d, -mo

Additional Notes:

Groundwater Sampling Field Data Sheet

Project Number	SC5370	Project Name	2700 23rd Ave	Date	11/17-18/2010
Site Address	Oakland			Weather	partly cloudy/dry
Well Id	MW-4	Well Diameter	2"	Technician	

Observed Condition	Yes	No	Remarks/Explanation
Change in condition of well setting (concrete pad/adjacent asphalt)?		✓	
Well box raised above surrounding surface or flush with pavement?	✓		
Evidence of change in surface elevation or vertical movement?		✓	
Well cover secured in place?	✓		
Well box gasket intact and in-place?	✓		
Evidence of water ponding in or around well access box?		✓	
Well plug in place?	✓		
Hazardous materials stored within 100 feet of well?		✓	

Purging:

Start Time: ...

Depth to water (ft): ...

Well Depth (ft): 20

Height of column (ft): ...

Volume in well (gal): ...

Purge Equipment	
Disposable bailer	
Submersible pump	✓
Peristaltic pump	
Other	

(0.16 gallon/foot for 2" well)
(0.65 gallon/foot for 4" well)
(1.47 gallon/foot for 6" well)

3 x well volume: ...

Amount purged (gal): ~8

Did well dry out? no, but → trickle

Gallons	pH	EC	DO	T	TDS	ORP
8	6.61	.31	6.1	22.7	1.9	+123

Sampling:

Sample ID: MW-4

Sample time: 1:50

Depth to water (ft): 7.47

Height of Column (ft): 12.53

≥80% initial column? ?

Color: Clear

Odor: unpleasant

Sheen: no

Sampling Equipment	
Disposable bailer	✓
Submersible pump	
Peristaltic pump	
Other	

Container (#/type): (2) 40-mL VOAs w/HCL, (1) 1-L Amber w/HCL

Analyses: VOCs, TPH-g, -d- mo

Additional Notes:

APPENDIX F

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: 10/18/2010 By jamesy

Permit Numbers: W2010-0754 to W2010-0757
Permits Valid from 10/26/2010 to 10/27/2010

Application Id: 1287164476041 **City of Project Site:** Oakland
Site Location: 2700 23rd Avenue, Oakland, CA
Project Start Date: 10/26/2010 **Completion Date:** 10/27/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Schutze And Associates - Ian Sutherland **Phone:** 510-434-1333
2100 Embarcadero E, Ste 100, Oakland, CA 94606
Property Owner: Mr. Loyal Moore **Phone:** 510-772-0872
30689 Prestwick Ave, Hayward, CA 94541
Client: ** same as Property Owner **

Total Due: $1588.00
Receipt Number: WR2010-0349 **Total Amount Paid:** $1588.00
Payer Name : Schutze Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: EGI - Lic #: 484288 - Method: hstem **Work Total: $1588.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0754	10/18/2010	01/24/2011	MW1	6.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0755	10/18/2010	01/24/2011	MW2	6.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0756	10/18/2010	01/24/2011	MW3	6.00 in.	2.00 in.	10.00 ft	20.00 ft
W2010-0757	10/18/2010	01/24/2011	MW4	6.00 in.	2.00 in.	10.00 ft	20.00 ft

Specific Work Permit Conditions

1. 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.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an 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.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org 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.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. 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.