August 6, 2010

Ms. Barbara Jakub
Hazardous Material Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Supplementary Site Characterization Report

Dear Ms. Jukub:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,

Jimmy Koo

Enclosure: Supplementary Site Characterization Report

ICES
Innovative & Creative
Environmental Solutions

August 6, 2010 ICES 7016

Ms. Barbara Jakub
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Supplementary Site Characterization
Sunny Piedmont Cleaners
Oakland, California

Dear Barbara:

Enclosed is our report documenting the supplementary site characterization activities at the Sunny Piedmont Cleaners located at 4364 Piedmont Avenue in Oakland, California ("the Site").

The purpose of the supplementary site characterization activities was to establish the lateral and vertical extent of volatile organic compounds (VOCs) encountered in the surficial soil at the Site. The presence of VOCs was identified in a previous site investigation.

If you have any questions or comments concerning this report, please do not hesitate to contact Derek Wong or me.

Sincerely,

REGISTERED PROFESSIONAL ENGINEER
PENG K. LEONG
C059707
CIVIL
STATE OF CALIFORNIA

Peng Leong, P.E.
Principal Engineer

Enclosure

cc: Mr. Jimmy Koo, Sunny Piedmont Cleaners

Tel (510) 652-3222
Fax (510) 652-3555

3300 Powell Street
Suite #109
Emeryville, CA
94608

SUPPLEMENTARY SITE CHARACTERIZATION
SUNNY PIEDMONT CLEANERS
OAKLAND, CALIFORNIA

August 6, 2010

ICES 7016

Prepared for

Mr. Jimmy Koo
Sunny Piedmont Cleaners
4364 Piedmont Avenue
Oakland, California 94611

ICES
Innovative & Creative Environmental Solutions

3300 Powell Street, Suite #109 Emeryville CA 94608
... (510) 652-3222 ...

ICES

TABLE OF CONTENTS

PAGE

ICES

LIST OF TABLES

LIST OF FIGURES

August 6, 2010 ICES 7016

SUPPLEMENTARY SITE CHARACTERIZATION

SUNNY PIEDMONT CLEANERS
OAKLAND, CALIFORNIA

1.0 INTRODUCTION

At the request of Mr. Jimmy Koo of Sunny Piedmont Cleaners ("the Client"), Innovative and Creative Environmental Solutions (ICES) has prepared this report to document the supplementary site characterization activities at the Sunny Piedmont Cleaners located at 4364 Piedmont Avenue in Oakland, California ("the Site"; Figure 1). The purpose of the supplementary site characterization activities was to establish the lateral and vertical extent of volatile organic compounds (VOCs) encountered in the surficial soil at the Site. The presence of VOCs was identified in a previous site investigation.

2.0 SITE DESCRIPTION

The Site is located on the west side of Piedmont Avenue, between Brandon Street and Gleneden Avenue, within the city limits of Oakland in a residential and commercial/industrial area of Alameda County, California. The Site is sandwiched between a movie rental business to the west and Honey Baked Ham and a shipping store to the east within a rectangular building. An asphalt-paved parking area adjoins the Site to the south. Sunny Piedmont Cleaners, a dry cleaner, is the current tenant at the Site.

3.0 BACKGROUND

Nova Consulting Group, Inc. (Nova) of San Francisco, California completed a Phase I Environmental Site Assessment (ESA) at the Site in April 2009. The ESA reported that dry cleaning operations using tetrachloroethene (PCE) and petroleum based cleaners had been conducted at the Site since 1984, a period of approximately 26 years.

A Phase II Site Investigation was conducted by Nova in June 2009. The objective of the investigation activities was to evaluate the shallow soil at the Site for the potential presence of contamination associated with the on-site dry cleaning operations. Five soil samples were collected from five soil boring locations at depths ranging from 4 to 20 feet below the existing ground surface (bgs) using a hand auger and geoprobe. The soil samples were analyzed for total petroleum hydrocarbons (TPH) as mineral spirits (TPHms) and VOCs. Analysis of the soil samples indicated TPHms and VOC concentrations were generally below the Regional Water Quality Control Board's Environmental Screening Levels (ESLs, where groundwater is a current or potential source of drinking water) for commercial/industrial landuse with the exception of PCE. The PCE concentration contained in sample HAB-2 collected at a depth of approximately 4 feet bgs (located adjacent to the dry cleaning machine at the northern portion of the Site) of 11 mg/kg exceeded the commercial/industrial ESL of 0.70 mg/kg. The four remaining soil samples surrounding sample HAB-2 contained PCE concentrations below the commercial/industrial ESL. Based on the findings of the investigation, it appeared that underlying sediments containing PCE levels exceeding the ESL were confined to the immediate vicinity of the dry cleaning machine.

4.0 PREFERNTIAL PATHWAY ASSESSMENT

ICES conducted a visual inspection of the Site on April 1, 2010. The purpose of the inspection was to identify locations of former and current dry cleaning equipment, chemical storage areas, and floor drains within the Site. Additionally, Underground Services Alert (USA) and Cruz Brothers (Cruz Brothers) of Scotts Valley, California were contacted to assist in identifying and locating subsurface utilities within the Site, the building, and the asphalt paved parking area (south of the Site). The subsurface utilities, dry cleaning machines, chemical storage areas, and floor drains within the Site are shown in Figure 2.

5.0 SUPPLEMENTARY SITE CHARACTERIZATION

A boring permit was obtained from the Alameda County Public Works Agency prior to supplementary site characterization activities. A copy of the permit is included in Appendix A. Site preparation included screening the borings using a magnetometer to assess the potential presence of underground utilities. USA and Cruz Brothers were contacted to assist in utility clearance activities prior to the initiation of the supplementary site characterization activities. The borings were drilled by RSI Drilling of Woodland, California on June 17 and July 23, 2010 and observed and documented by ICES.

Soil samples were collected from three onsite borings (B-1, B-2, and B-3). A grab groundwater sample was also collected from boring B-3. Boring B-1 was located adjacent to the dry cleaning machine at the northern portion of the Site (in the immediate vicinity of boring HAB-2); boring B-2 was located adjacent to the sanitary sewer line and floor drain at the northern portion of the building, west of the dry cleaning machine; and boring B-3 was located along the western perimeter of the building. An angled boring was drilled at boring B-3 to gain access to the groundwater beneath the dry cleaning machine. The approximate boring locations are shown in Figure 2.

Soil samples were collected from borings B-1 and B-2 using a limited access direct push drill rig. Soil samples were collected at continuous 5-foot intervals, starting at a depth of approximately 5 feet bgs and extended to the sampler refusal depths of approximately 16 and 15 feet bgs, respectively. Soil samples were collected from boring B-3 using a sonic rig at an angle of 60 degrees. Soil samples were collected at continuous 5-foot intervals, starting at a depth of approximately 5 feet bgs and extended to the soil/groundwater interface (at a depth of approximately 42 feet bgs). Soil samples were collected from the borings by driving a sampler containing vinyl acetate tubing using a power probe and screened using a portable photoionization detector (PID).

A grab groundwater sample was collected from boring B-3 using a hydropunch. Hollow diameter PVC casing containing a perforated PVC screen at the bottom of the casing was advanced to approximately 3 feet below the first permeable zone. The casing was then retracted approximately 4 feet to allow infiltration of groundwater. The groundwater sample was collected by lowering a Teflon bailer through the hollow casing. The sample was transferred into 40-mL VOA vials.

The filled vinyl acetate tubing and 40-mL VOA vials were immediately capped, sealed, labeled, and placed in a chilled cooler containing crushed ice for delivery to the laboratory. Strict chain-of-custody protocols were followed in all phases of sample handling. All equipment used during this investigation which came into contact with affected material was thoroughly decontaminated before and after each use. This was be accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with fresh water.

The boreholes were backfilled with neat cement grout upon completion of the soil and groundwater sampling activities. The neat cement was tremied from the bottom of the borehole to the top of the borehole.

6.0 LABORATORY ANALYSIS

The soil and groundwater samples were sent to McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California, a state-certified laboratory, and selectively analyzed for VOCs using EPA Method 8260B on a 48-hour to normal turnaround basis.

Soil samples collected from borings B-1 and B-2 at depths of approximately 5, 15, and/or 16 feet bgs; and the soil sample collected from the soil/groundwater interface from boring B-3 at a depth of approximately 42 feet bgs were analyzed for VOCs. The remaining soil samples were placed on hold at McCampbell.

7.0 INVESTIGATION RESULTS

The field observations and laboratory analytical results are presented below. PID readings are tabulated in Table 1. The laboratory analytical results are summarized in Tables 2 and 3. Laboratory analytical results are included in Appendix B.

7.1 Field Observations

The Site was generally underlain by a brown silty clay to the total depth of the borings. Groundwater was encountered in boring B-3 at a depth of approximately 43 feet bgs.

Field screening of the soil samples collected from borings B-1, B-2, and B-3 did not detect elevated concentrations of organic vapors when screened with the PID (Table 1). In addition, no odor or discoloration was observed in the soil samples collected from the borings completed at the Site.

7.2 Laboratory Analytical Results

Analysis of the soil samples indicated that:

- PCE concentrations ranged from less than 0.005 mg/kg (not detected) to 0.045 mg/kg.
- The remaining volatile organic compounds analyzed using EPA Method 8260B were below their respective detection limits.

Analysis of the grab groundwater sample indicated that:

- PCE concentration was less than 5.0 ug/L (not detected).

- t-Butyl alcohol (TBA) concentration was 8.9 ug/L.
- The remaining volatile organic compounds analyzed using EPA Method 8260B were below their respective detection limits.

8.0 DISCUSSION

Laboratory analytical results indicated that the samples collected from borings B-1 and B-2 at 5 feet bgs contained detectable concentrations of PCE. The detectable PCE contained in samples B-1@5' and B-2@5' of 0.021 mg/kg and 0.045 mg/kg were significantly below the commercial/industrial ESL of 0.70 mg/kg. The corresponding deeper samples collected from borings B-1 and B-2 at depths of approximately 16 and 15 feet bgs contained non-detectable concentrations of VOCs. Analysis of the soil sample collected from boring B-3 at a depth of approximately 42 feet bgs contained non-detectable concentrations of VOCs. VOC concentrations contained in the groundwater sample (W-3) collected from boring B-3 were generally below their respective detection limits, with the exception of TBA. The TBA detected in W-3 of 8.9 ug/L was below the ESL of 12.0 ug/L.

Based on the laboratory analytical results of this sampling event and the previous sampling event, it appears that the underlying sediments containing PCE levels exceeding the ESL are confined to the immediate vicinity of the dry cleaning machine and extends to a maximum depth of approximately 5 feet bgs. Additionally, the underlying groundwater at the northern portion of the Site (beneath the dry cleaning machine) is not impacted by PCE.

9.0 EXCLUSIONS

ICES assumes no responsibility or liability for the reliance hereon or use hereof of information contained in this report by anyone other than the party to whom it is addressed.

The evaluations and recommendations presented in this report are based on the limited site investigation results available at this time and could be revised if new information necessitating further review of the Site becomes available.

TABLE 1
PID READINGS
Sunny Piedmont Cleaners
Oakland, California

Sample ID	Depth (feet)	PID Readings (parts-per-million)
B-1@5'	5.0	0.4
B-1@10'	10.0	0.2
B-1@15'	15.0	0.0
B-1@16'	16.0	0.0
B-2@5'	5.0	0.7
B-2@10'	10.0	0.1
B-2@15'	15.0	0.0
B-3@5'	5.0	0.0
B-3@10'	10.0	0.0
B-3@15'	15.0	0.0
B-3@20'	20.0	0.0
B-3@25'	25.0	0.0
B-3@30'	30.0	0.0
B-3@35'	35.0	0.0
B-3@40'	40.0	0.0
B-3@42'	42.0	0.0

TABLE 2
SOIL SAMPLE RESULTS - VOCs
Sunny Piedmont Cleaners
Oakland, California

Sample ID	Depth (feet)	PCE (mg/kg)	VOCs (mg/kg)
B-1@5'	5.0	0.021	<0.005-0.1
B-1@16'	16.0	<0.005	<0.005-0.1
B-2@5'	5.0	0.045	<0.005-0.1
B-2@15'	15.0	<0.005	<0005-0.1
B-3@42'	42.0	<0.005	<0.005-0.1
Commercial/Industrial ESL (1)		0.70	---

Note:

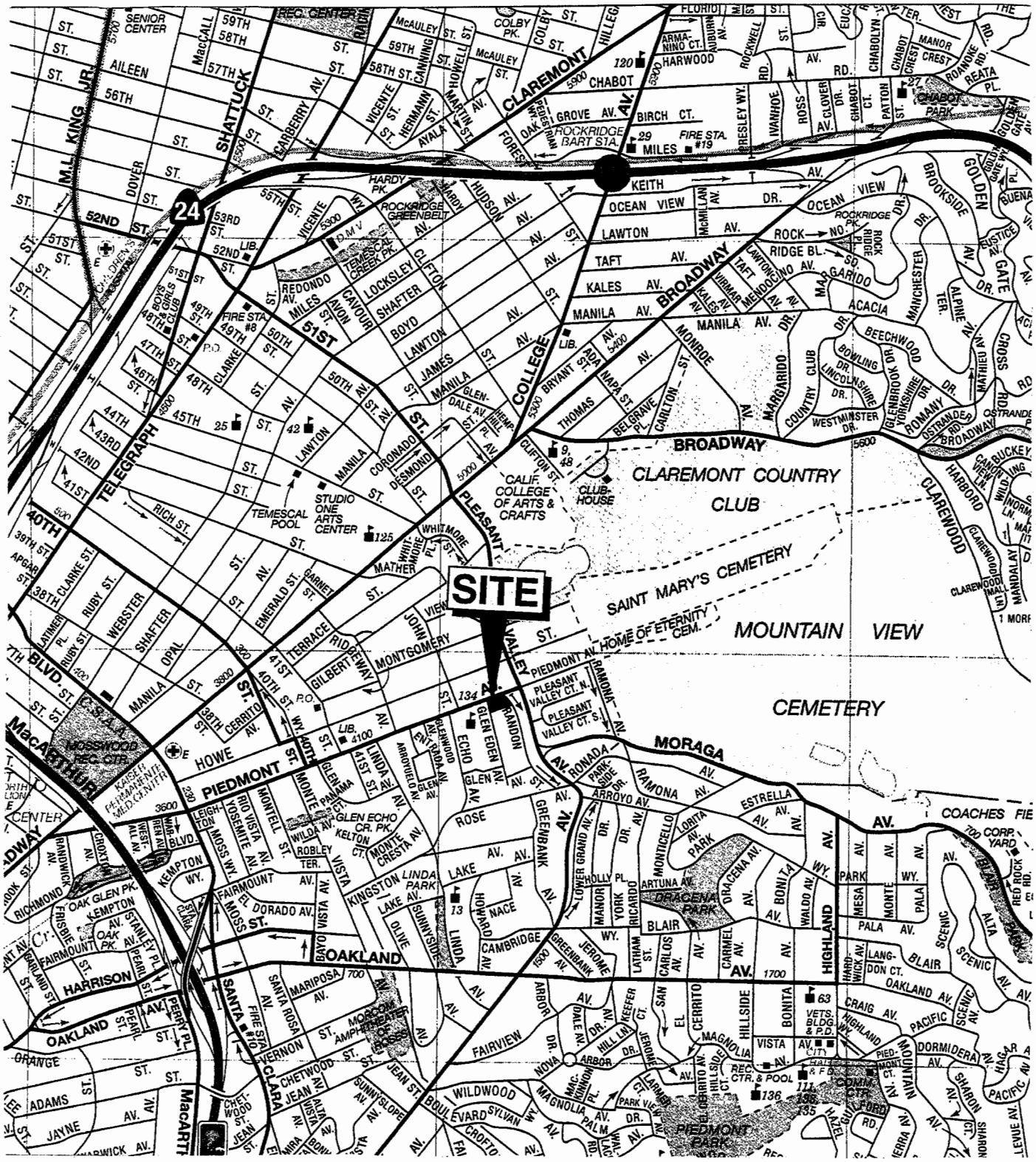
1. Shallow soils (<3m bgs) and Deep soils (>3m bgs), where groundwater is a current or potential source of drinking water.

TABLE 3
GROUNDWATER SAMPLE RESULTS - VOCs
Sunny Piedmont Cleaners
Oakland, California

Sample ID	DTW (feet)	PCE (ug/L)	TBA (ug/L)	VOCs (ug/L)
W-3	43.0	<0.5	8.9	<0.5-10.0
ESL (1)		5.0	12.0	---

Note:

1. Groundwater is a current or potential source of drinking water.



MAP SOURCE : CSAA

Scale: 1" : 1100'	August 2010

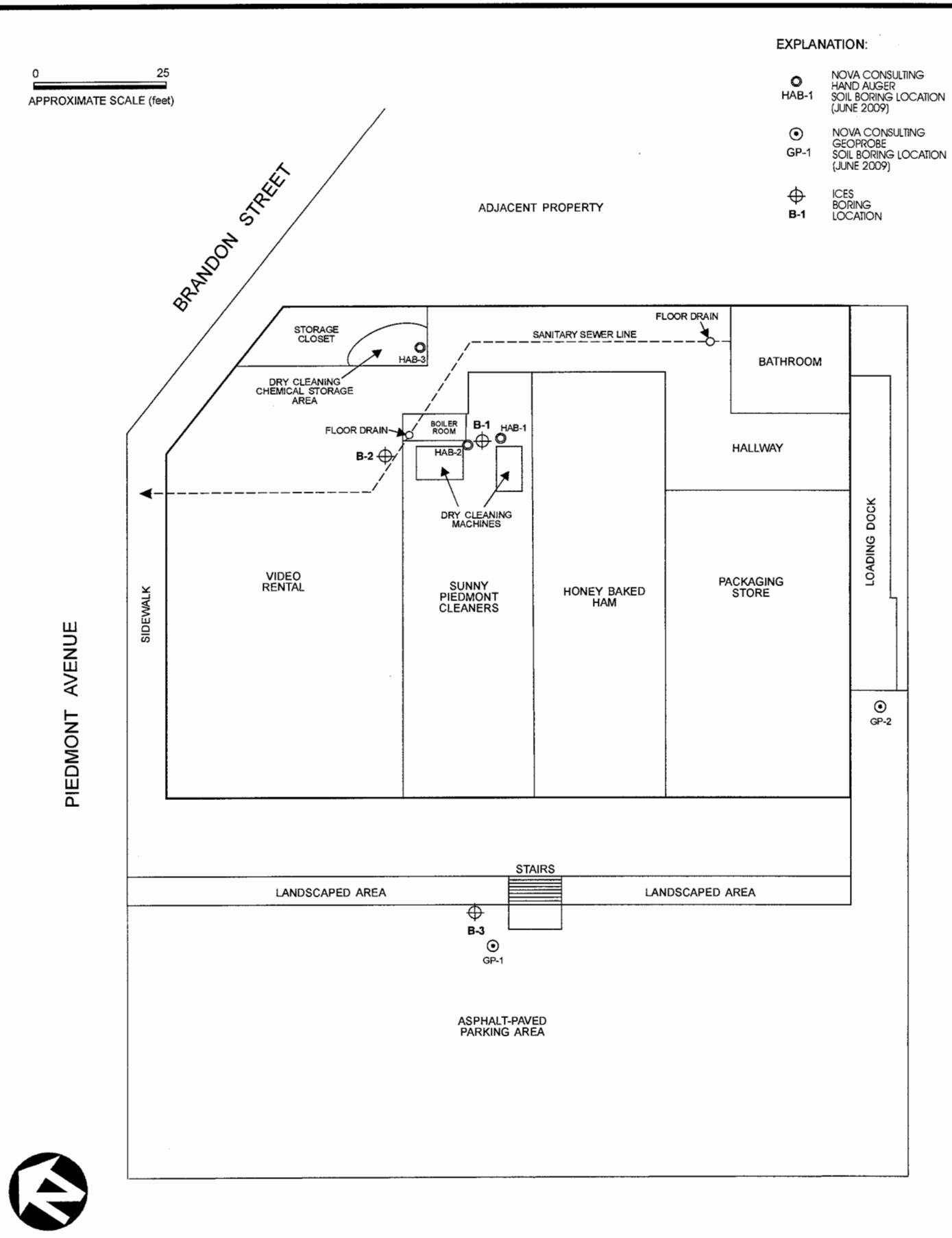
SITE LOCATION

Sunny Piedmont Cleaners
Oakland, California

Figure 1

Project 7016

ICES
Innovative & Creative Environmental Solutions



August 2010

Innovative & Creative Environmental Solutions

BORING LOCATIONS

Sunny Piedmont Cleaners
Oakland, California

Figure 1

Project 7016

APPENDIX A

DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 06/03/2010 By jamesy

Permit Numbers: W2010-0388
Permits Valid from 06/17/2010 to 06/18/2010

Application Id:	1275495456060	**City of Project Site:** Oakland
Site Location:	4364 Piedmont Avenue	
Project Start Date:	06/17/2010	**Completion Date:** 06/18/2010
Assigned Inspector:	Contact John Shouldice at (510) 670-5424 or johns@acpwa.org	
Applicant:	ICES - Derek Wong 3300 Powell Street #109, Emeryville, CA 94608	**Phone:** 510-652-3222
Property Owner:	Donna Clar 230 Moraga Way, Orinda, CA 94563	**Phone:** --
Client:	Jimmy Koo 4364 Piedmont Avenue, Oakland, CA 94611	**Phone:** --
Contact:	Derek Wong	**Phone:** 510-282-3525 **Cell:** --

Total Due: $265.00
Receipt Number: WR2010-0192 **Total Amount Paid:** $265.00
Payer Name : Innovative and Creative Envioronmental Solutions Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 8 Boreholes
Driller: RSI Drilling - Lic #: 802334 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2010-0388	06/03/2010	09/15/2010	8	2.00 in.	35.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. 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.

5. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. 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.

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

ICES

APPENDIX B

LABORATORY ANALYTCAL RESULTS

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

ICES	Client Project ID: #ICES 7016	Date Sampled: 06/17/10
		Date Received: 06/18/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 06/18/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 06/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1006526

Lab ID	1006526-001A
Client ID	B-1@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	0.021	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:	98	%SS2:	108
%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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

ICES	Client Project ID: #ICES 7016	Date Sampled: 06/17/10
		Date Received: 06/18/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 06/18/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 06/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1006526

Lab ID	1006526-004A
Client ID	B-1@16'
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:	102	%SS2:	106
%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

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

ICES	Client Project ID: #ICES 7016	Date Sampled: 06/17/10
		Date Received: 06/18/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 06/18/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 06/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1006526

Lab ID	1006526-005A
Client ID	B-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	0.045	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:	100	%SS2:	106
%SS3:	99		

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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

ICES	Client Project ID: #ICES 7016	Date Sampled: 06/17/10
		Date Received: 06/18/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 06/18/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 06/22/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1006526

Lab ID	1006526-007A
Client ID	B-2@15'
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:	107
%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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 51247 WorkOrder 1006526

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1006389-009A**

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	83.1	80.3	3.46	88.3	85.9	2.74	70 - 130	30	70 - 130	30
Benzene	ND	0.050	96.6	94.2	2.60	105	102	3.36	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	89.8	81.1	10.2	93.3	88.9	4.76	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	107	102	4.98	117	113	3.66	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	109	110	1.10	120	116	3.44	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	103	103	0	110	107	2.75	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	106	99.4	6.54	116	114	1.88	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	94.7	90.9	4.11	100	97.3	2.73	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	94.1	92.1	2.17	99.6	97.3	2.36	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	101	101	0	106	103	3.03	70 - 130	30	70 - 130	30
Toluene	ND	0.050	111	107	4.04	122	116	5.13	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	119	116	2.01	130	128	1.40	70 - 130	30	70 - 130	30
%SS1:	103	0.13	100	103	3.54	100	102	1.76	70 - 130	30	70 - 130	30
%SS2:	105	0.13	106	108	1.84	108	107	1.01	70 - 130	30	70 - 130	30
%SS3:	97	0.013	99	98	0.883	99	98	1.77	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 51247 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006526-007A	06/17/10	06/18/10	06/22/10 1:56 AM				

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

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil | QC Matrix: Soil | BatchID: 51252 | WorkOrder 1006526

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1006410-001A**

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	76.7	75.7	1.22	75.8	78.2	3.19	70 - 130	30	70 - 130	30
Benzene	ND	0.050	110	107	2.59	108	111	2.30	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	84.2	87.6	3.95	84.8	88	3.71	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	113	111	1.38	111	116	4.28	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	99.7	2.20	101	104	3.72	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	96.8	96.7	0.143	94.4	97	2.72	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	112	110	1.84	111	112	0.504	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	99.2	97.8	1.33	96.8	100	3.31	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	96.1	94.8	1.37	95.3	97.5	2.35	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	107	106	1.20	105	108	2.62	70 - 130	30	70 - 130	30
Toluene	ND	0.050	115	113	1.75	113	118	4.54	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	109	108	1.06	106	110	4.25	70 - 130	30	70 - 130	30
%SS1:	103	0.13	113	112	0.782	112	111	1.11	70 - 130	30	70 - 130	30
%SS2:	105	0.13	129	129	0	129	128	0.660	70 - 130	30	70 - 130	30
%SS3:	99	0.013	120	120	0	123	120	2.33	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 51252 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006526-001A	06/17/10	06/18/10	06/22/10 5:12 PM	1006526-004A	06/17/10	06/18/10	06/22/10 12:31 AM
1006526-005A	06/17/10	06/18/10	06/22/10 1:14 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.

DHS ELAP Certification 1644

QA/QC Officer

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

1006526

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

☐ GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW)

Report To: Peng Leong Bill To: Same
Company: ICES
P.O. Box 99288
Emeryville, CA 94662 E-Mail: derek_ices@yahoo.com
Tele: (510) 652-3222 Fax: (510) 652-3555
Project #: ICES 7016 Project Name:
Project Location: 4364 Piedmont Avenue, Oakland, CA
Sampler Signature: IWW

Comments: Filter Samples for Metals analysis: Yes / No

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	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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: Hold	Other	Other	Comments
B-1@5'	B-1	6-17-10		1			✓				✓														✓									
B-1@10'	B-1			1			✓				✓																				✓			
B-1@15'	B-1			1			✓				✓																				✓			
B-1@12'	B-1			1			✓				✓														✓									
B-2@5'	B-2			1			✓				✓														✓									
B-2@10'	B-2			1			✓				✓																				✓			
B-2@15'	B-2			1			✓				✓														✓									

Relinquished By:	Date:	Time:	Received By:
IWW Won	6-17-10	1230	[signature]
Relinquished By: [signature]	Date: 6/18/10	Time: 600	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

ICE/t° YES 5°c
GOOD CONDITION ✓
HEAD SPACE ABSENT NA
DECHLORINATED IN LAB NA
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB NA

COMMENTS:

PRESERVATION VOAS O&G METALS OTHER
pH<2

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1006526 **ClientCode: ICES**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Peng Leong
ICES
P.O. Box 99288
Emeryville, CA 94662
(510) 282-3525 FAX (510) 652-3555

Email: derek_ices@yahoo.com
cc:
PO:
ProjectNo: #ICES 7016

Bill to:
Accounts Payable
ICES
P.O. Box 99288
Emeryville, CA 94662

Requested TAT: 5 days

Date Received: **06/18/2010**
Date Printed: **06/18/2010**

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
1006526-001	B-1@5'	Soil	6/17/2010	☐	A											
1006526-004	B-1@16'	Soil	6/17/2010	☐	A											
1006526-005	B-2@5'	Soil	6/17/2010	☐	A											
1006526-007	B-2@15'	Soil	6/17/2010	☐	A											

Test Legend:

1	8260B_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

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

ICES	Client Project ID: ICES 7016	Date Sampled: 07/23/10
		Date Received: 07/23/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 07/23/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 07/23/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1007653

Lab ID	1007653-001A
Client ID	B-3@42'
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:	92	%SS2:	106
%SS3:	95		

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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 52060 WorkOrder 1007653

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1007653-001A**

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	77.1	78.2	1.40	77	77.5	0.565	70 - 130	30	70 - 130	30
Benzene	ND	0.050	109	109	0	113	107	5.36	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	92.5	94	1.65	90.3	87.6	3.03	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	116	117	0.540	119	118	1.49	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	100	102	2.01	104	102	2.78	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	112	109	2.36	105	108	2.59	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	110	109	0.646	114	105	7.96	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	112	116	3.08	113	112	0.428	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	88.2	90.5	2.49	89.1	87.7	1.57	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	93.6	97.5	4.06	95.4	93.9	1.55	70 - 130	30	70 - 130	30
Toluene	ND	0.050	114	117	2.70	122	118	3.50	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	112	113	1.16	114	114	0	70 - 130	30	70 - 130	30
%SS1:	92	0.13	105	103	2.06	104	101	2.77	70 - 130	30	70 - 130	30
%SS2:	106	0.13	113	116	2.05	115	115	0	70 - 130	30	70 - 130	30
%SS3:	95	0.013	94	103	8.88	94	99	5.31	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 52060 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007653-001A	07/23/10	07/23/10	07/23/10 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 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

JR QA/QC Officer

1007653

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: Peng Leong	Bill To: Same
Company: ICES	
P.O. Box 99288	
Emeryville, CA 94662	E-Mail: derek_ices@yahoo.com
Tele: (510) 652-3222	Fax: (510) 652-3555
Project #: 10-15-7016	Project Name:
Project Location:	
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	Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic 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
B-3@42'		1-23-10		1			✓																		✓											

**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:
	7-23-10	1130	
	7/23/10	1500	

ICE/T ☐
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: 1007653 **ClientCode: ICES**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Peng Leong
ICES
P.O. Box 99288
Emeryville, CA 94662
(510) 282-3525 FAX (510) 652-3555

Email: derek_ices@yahoo.com
cc:
PO:
ProjectNo: ICES 7016

Bill to:
Accounts Payable
ICES
P.O. Box 99288
Emeryville, CA 94662

Requested TAT: 2 days

Date Received: **07/23/2010**
Date Printed: **07/23/2010**

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
1007653-001	B-3@42'	Soil	7/23/2010	☐	A											

Test Legend:

1	8260B_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 48hr rush

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

ICES	Client Project ID: ICES 7016	Date Sampled: 07/23/10
		Date Received: 07/23/10
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 07/29/10
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 07/29/10

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1007654

Lab ID	1007654-001A
Client ID	W-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)	ND	1.0	2.0	t-Butyl alcohol (TBA)	8.9	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:	119	%SS2:	105
%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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 52055 WorkOrder 1007654

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1007643-002a**

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
tert-Amyl methyl ether (TAME)	ND	10	90.6	92	1.55	86	79.6	7.73	70 - 130	30	70 - 130	30
Benzene	ND	10	95.1	102	6.89	102	96.3	5.54	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	115	113	1.56	84.7	81.4	3.98	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	106	111	4.42	108	102	5.83	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	115	114	1.05	101	92	9.74	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	113	122	7.39	102	97.3	5.17	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	90.9	98.1	7.60	101	95.3	6.13	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	107	115	6.80	105	103	1.97	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	94.1	101	7.39	93	85.5	8.40	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	103	106	2.52	99.3	93.1	6.46	70 - 130	30	70 - 130	30
Toluene	ND	10	97.5	103	5.80	99.9	96.1	3.93	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	100	106	5.34	106	98.7	6.97	70 - 130	30	70 - 130	30
%SS1:	105	25	111	111	0	104	103	0.525	70 - 130	30	70 - 130	30
%SS2:	104	25	109	109	0	106	107	1.08	70 - 130	30	70 - 130	30
%SS3:	116	2.5	98	99	1.55	78	80	2.18	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 52055 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007654-001A	07/23/10	07/29/10	07/29/10 1:59 PM				

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

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

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

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

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

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

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

DHS ELAP Certification 1644

QA/QC Officer

1067654

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: Peng Leong	Bill To: Same
Company: ICES	
P.O. Box 99288	
Emeryville, CA 94662	E-Mail: derek_ices@yahoo.com
Tele: (510) 652-3222	Fax: (510) 652-3555
Project #: 105701.6	Project Name:
Project Location:	
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	Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	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	Comments
W-3		7-23-10		2		✓					✓	✓													✓								

**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:
	7-23-10	1730	
Relinquished By:	Date:	Time:	Received By:
	7/23/10	1500	
Relinquished By:	Date:	Time:	Received By:

ICE/ 0.3
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: 1007654 **ClientCode: ICES**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Peng Leong
ICES
P.O. Box 99288
Emeryville, CA 94662
(510) 282-3525 FAX (510) 652-3555

Email: derek_ices@yahoo.com
cc:
PO:
ProjectNo: ICES 7016

Bill to:
Accounts Payable
ICES
P.O. Box 99288
Emeryville, CA 94662

Requested TAT: 5 days

Date Received: **07/23/2010**
Date Printed: **07/23/2010**

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
1007654-001	W-3	Water	7/23/2010	☐	A											

Test Legend:

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

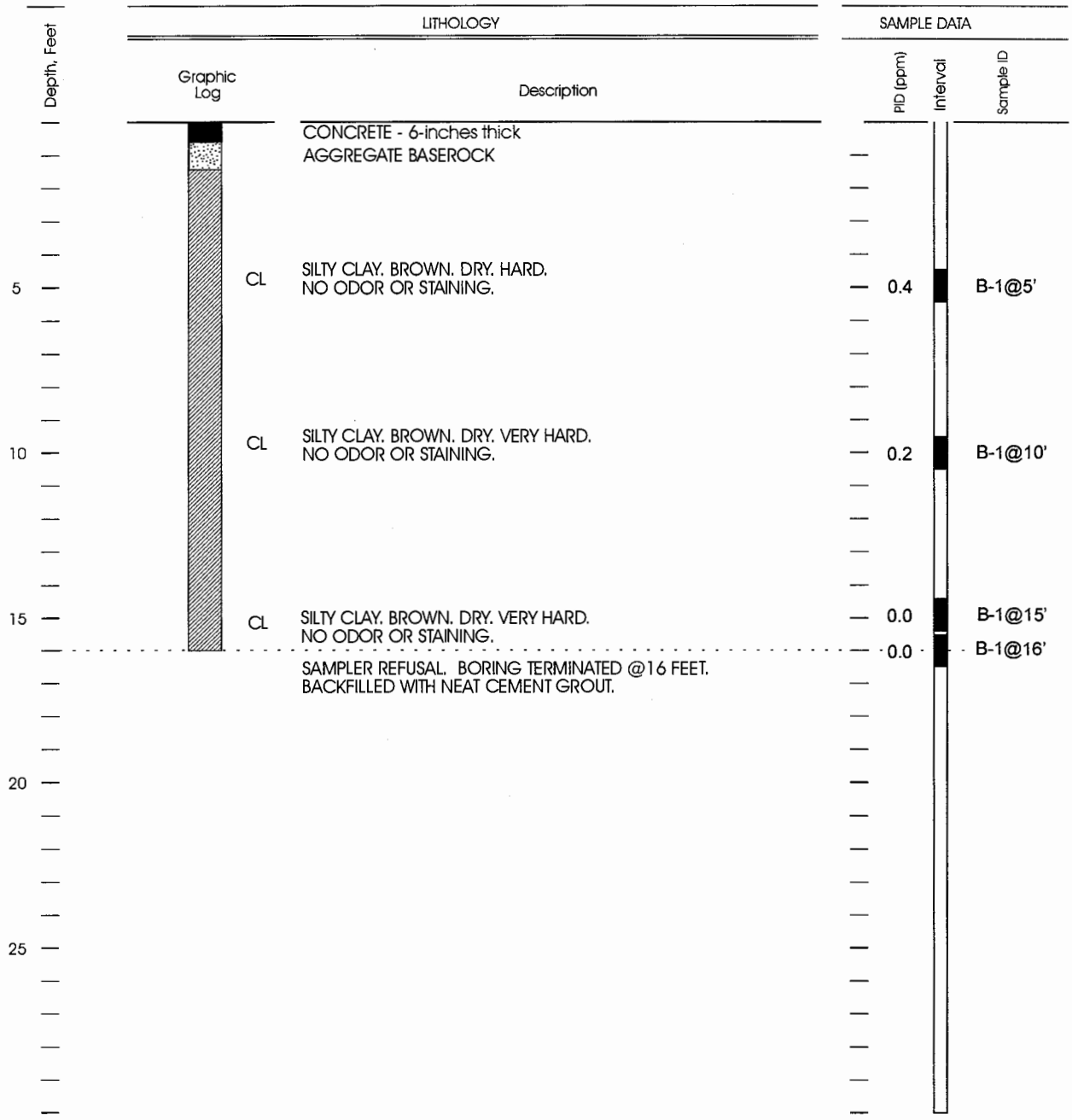
Prepared by: Ana Venegas

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.

APPENDIX C

BORING LOGS



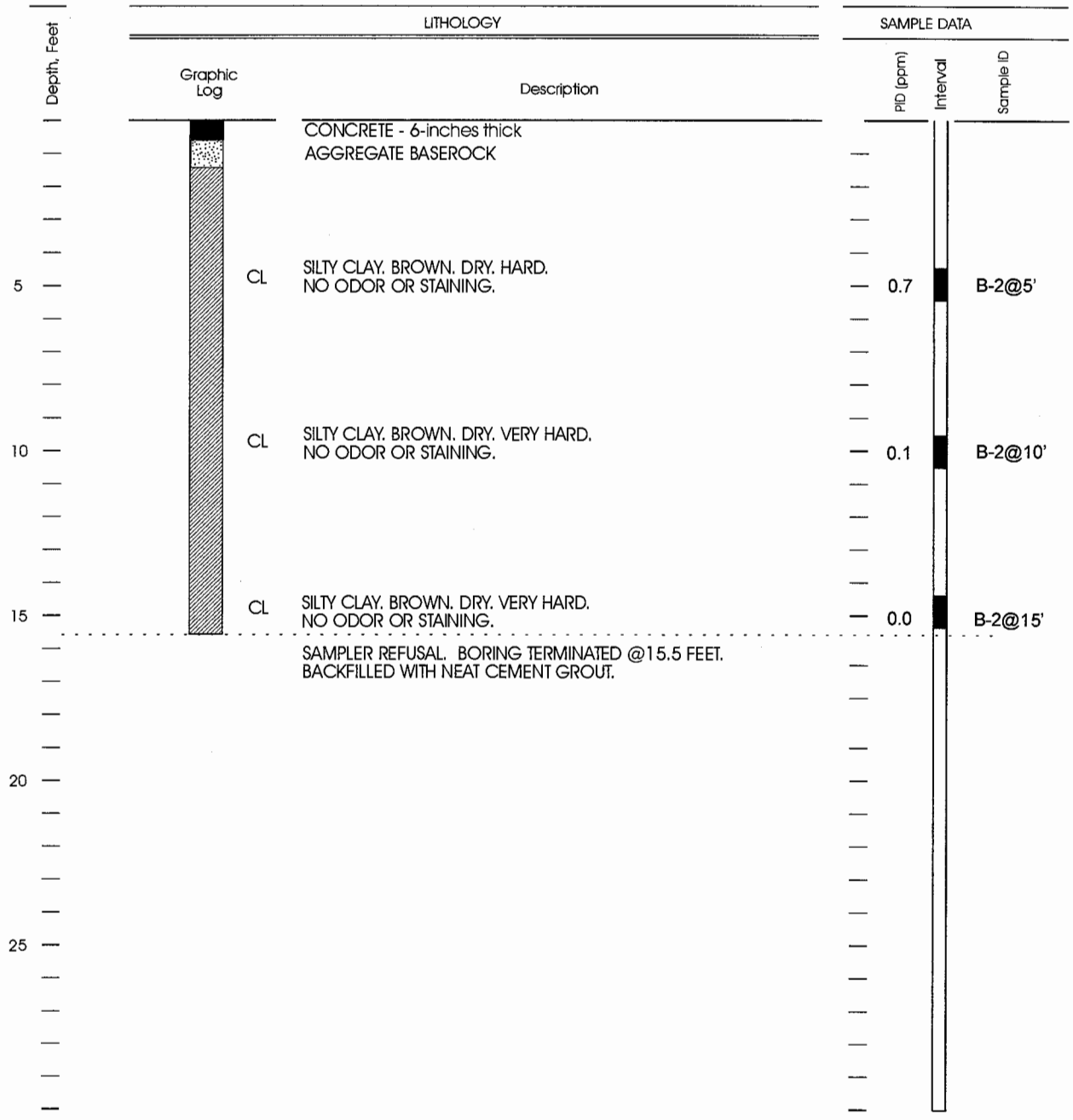
Date Drilled: 6-17-2010
Driller: RSI Drilling
Drilling Method: Direct-Push
Logged By: Derek Wong
Checked By: Peng Leong, PE, #Co39707

Innovative & Creative Environmental Solutions

FIELD AND LITHOLOGIC LOG FOR SOIL BORING B-1

Sunny Piedmont Cleaners, Oakland, California

Project 7016



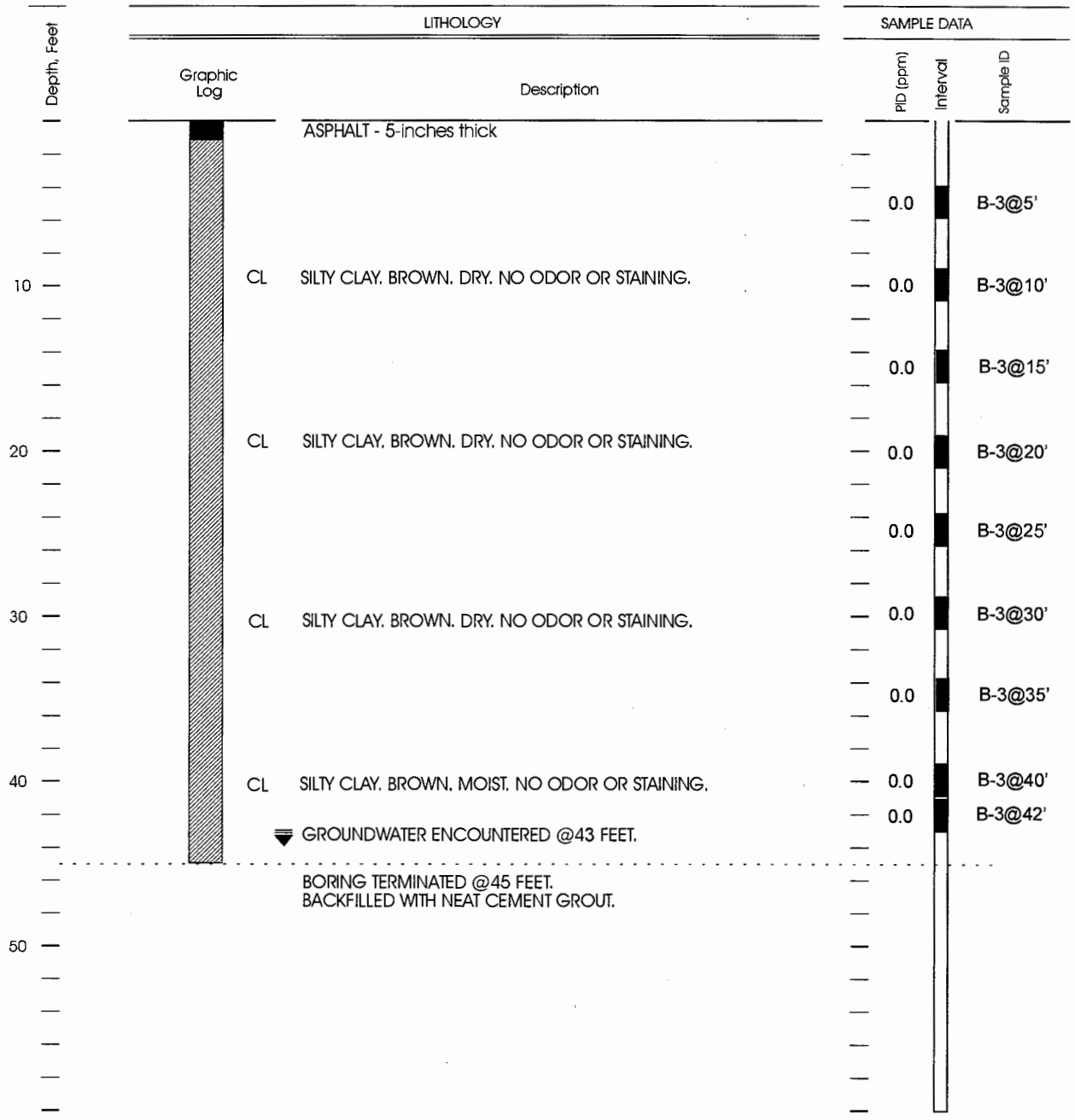
Date Drilled: 6-17-2010
Driller: RSI Drilling
Drilling Method: Direct-Push
Logged By: Derek Wong
Checked By: Peng Leong, PE, #Co39707

Innovative & Creative Environmental Solutions

FIELD AND LITHOLOGIC LOG FOR SOIL BORING B-2

Sunny Piedmont Cleaners, Oakland, California

Project 7016



Date Drilled: 7-23-2010
Driller: RSI Drilling
Drilling Method: Direct-Push
Logged By: Derek Wong
Checked By: Peng Leong, PE, #Co39707

Innovative & Creative Environmental Solutions

FIELD AND LITHOLOGIC LOG FOR SOIL BORING B-3

Sunny Piedmont Cleaners, Oakland, California

Project 7016