

June 13, 2012

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

**RECEIVED**

*5:48 pm, Jun 13, 2012*


Alameda County  
Environmental Health

Subject: Remedial Report  
Sunny Piedmont Cleaners  
Oakland, California

Dear Ms. Jakub:

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: Remedial Report

May 30, 2012

ICES 7016

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

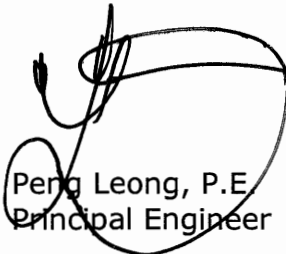
Subject: Remedial Report  
Sunny Piedmont Cleaners  
Oakland, California

Dear Barbara:

Enclosed is our report documenting the remedial activities that were conducted at the Sunny Piedmont Cleaners located at 4364 Piedmont Avenue in Oakland, California ("the Site").

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

Sincerely,

  
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

**REMEDIAL REPORT**  
**SUNNY PIEDMONT CLEANERS**  
**OAKLAND, CALIFORNIA**

May 30, 2012

ICES 7016

Prepared for

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



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

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May 30, 2012

ICES 7016

**REMEDIAL REPORT**  
**SUNNY PIEDMONT CLEANERS**  
**OAKLAND, CALIFORNIA**

## **1.0 INTRODUCTION**

This report presents the remedial action activities conducted at the Sunny Piedmont Cleaners located at 4364 Piedmont Avenue in Oakland, California ("the Site"; Figure 1). The purpose of the remedial activities was to remove soil containing elevated concentrations of tetrachloroethene (PCE) which was identified in a previous site investigation. The cleanup levels for soil that were developed by the Regional Water Quality Control Board for commercial/industrial applications were adopted as the remedial goals for the Site.

## **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 Verizon Wireless to the west and Honey Baked Ham and a packaging store to the east, all of which are housed 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) for the Site in April 2009. The ESA reported that dry cleaning operations using 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 contaminants associated with the onsite 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 volatile organic compounds (VOCs). Analysis of the soil samples indicated that 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 that was collected at a depth of approximately 4 feet bgs (located adjacent to the dry cleaning machine at the eastern portion of the Site) of 11 mg/kg exceeded the commercial/industrial ESL of 0.70 mg/kg. The four remaining soil samples contained PCE concentrations below the commercial/industrial ESL. Based on the findings of the investigation, it appeared that a very localized dry cleaning solvent release to the subsurface sediments beneath the eastern portion of the Site had occurred.

ICES conducted a supplementary site characterization in June/July 2010. The purpose of the supplementary site characterization activities was to establish the lateral and vertical extent of VOCs encountered in the surficial soil at the Site that were identified from the previous site investigation. Soil samples were collected from three onsite borings (B-1 through B-3). A grab groundwater sample was also collected from boring B-3. Boring B-1 was located adjacent to the dry cleaning machines at the eastern 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, north of the dry cleaning machines; 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 machines. Laboratory analytical results of the soil samples collected indicated VOC concentrations below their respective commercial/industrial ESLs. VOC concentrations contained in the grab groundwater sample that was collected from boring B-3 were below their respective ESLs.

Based on the laboratory analytical results of the Phase II Site Investigation and supplementary site characterization activities, it appeared that the underlying sediments containing PCE levels exceeding the ESL was confined to the immediate vicinity of the dry cleaning machines and extended to a maximum depth of approximately 5 feet bgs.

As requested by Alameda County Environmental Health, a conduit study and well survey was completed for the Site in July/August 2011. Cruz Brothers of Scotts Valley and Underground Services Alert were contacted to assist in identifying and locating subsurface utilities within the Site, the sidewalk area along Piedmont Avenue (north of and adjacent to the Site), and underlying Piedmont Avenue. Figure 2 presents the findings of the utility survey showing the approximate location of utilities.

A review of the City of Oakland Sanitary Sewer maps and a visual inspection of the sanitary sewer alignment onsite and in the adjacent street (Piedmont Avenue) indicated



that the sanitary sewer runs south to north within the building to a tie-in at Piedmont Avenue to the north. Water, gas, and electrical lines were aboveground and overhead within the building.

According to the State of California Department of Water Resources (DWR) database and the Alameda County Public Works Agency database, there are two wells located within a 1,000-foot radius of the Site, five wells located just over 1,500 feet from the Site; and 54 wells located over 2,000 feet from the Site.

#### 4.0 SUPPLEMENTARY ASSESSMENT AND INVESTIGATION

A supplementary assessment and investigation in the vicinity of the sanitary sewer alignment was conducted to assess the potential migration of PCE. Soil samples were collected from boring B-4 which was located along the sanitary sewer alignment at the northern portion of the Site and approximately 35 feet north of boring B-2 (Figure 2). A boring permit was obtained from Alameda County Public Works Agency prior to the investigation activities. A copy of the permit is included in Appendix A. The boring was drilled by TEG - Northern California, Inc. of Rancho Cordova, California on February 10, 2012

Soil samples were collected from boring B-4 by driving a sampler containing vinyl acetate tubing using a limited access direct push drill rig. Soil samples were collected at continuous 2-foot intervals, starting at a depth of approximately 1 foot below the sanitary sewer line (approximately 5 feet bgs) and extended to a depth of approximately 10 feet bgs. The soil from the boring was screened using a portable photoionization detector (PID). Field screening of the soil from the boring did not detect elevated concentrations of organic vapors when screened using a PID (Table 1). In addition, neither odor nor discoloration was observed in the soil (Appendix B).

The soil samples were stored in a chilled cooler containing crushed ice for delivery to McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California, a state-certified laboratory. Strict chain-of-custody protocols were followed in all phases of sample handling. All equipment that was used during the investigation which came into contact with affected material was thoroughly decontaminated before and after each use. This was accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with fresh water. The borehole was backfilled with neat cement grout upon the completion of the soil sampling activities. The neat cement was tremied from the bottom of the borehole to the top of the borehole.

McCampbell analyzed the sample that was collected at 5 feet bgs (B-4@5') for VOCs using EPA Method 8260B on a normal 5-day turnaround basis (Appendix C). The

remaining samples that were collected were placed on hold. Laboratory analysis of sample B-4@5' indicated VOC concentrations below their respective commercial/industrial ESLs (Table 1).

## 5.0 REMEDIAL ACTIVITIES

Remedial activities to remove the PCE-affected soil located within the immediate vicinity of the dry cleaning machines was performed in January and May 2012 in accordance with the approved Work Plan dated August 8, 2011.

Prior to the remedial activities, permits were obtained from the appropriate local, state, or federal agencies. A Bay Area Air Quality Management District Notification was prepared and submitted. A copy of the notification is included in Appendix A.

### 5.1 Site Preparation

Site preparation included marking the approximate limits of the PCE-affected soil, cutting and removing the concrete floor slab, and prewetting the excavation area.

### 5.2 Soil Excavation and Sampling

The removal of the PCE-affected soil was performed manually using shovels and wheel barrows on January 13, 2012. The excavated soil was placed in 55-gallon drums for offsite disposal.

When the excavation approached the marked limits, excavation sidewall and floor samples were collected. One sidewall sample was collected at approximately every 10-linear foot interval of excavation sidewall. One floor sample was collected at approximately every 100 square feet of excavation floor area (equivalent to a square measuring approximately 10 feet by 10 feet). A minimum of five (four sidewalls and one floor) samples were collected from the excavation. The approximate sample locations are shown in Figure 3. The final dimensions of the excavation was approximately 3 feet wide by 3.5 feet long and extended to a depth of approximately 5 feet bgs.

The sidewall and floor samples were sent to McCampbell and analyzed for VOCs using EPA Method 8260B based on a 24-hour rush turnaround basis. Results of the excavation samples are summarized in Table 2. Laboratory certificates are included in Appendix C. Laboratory analytical results of the final confirmation excavation sidewall and floor samples indicated VOC concentrations below their respective commercial/industrial ESLs. The excavation was subsequently backfilled and compacted using virgin import fill on January 14, 2012.

### 5.3 Soil Profiling and Disposal

A soil characterization sample was collected from the two 55-gallon drums of PCE-affected soil on January 13, 2012. The soil sample results were used to profile the PCE-affected soil for disposal at the Kettleman Hills landfill in Kettleman City, California (Appendix D).

The two 55-gallon drums of PCE-affected soil were removed on May 1, 2012 by Veolia Environmental Services and transported to Kettleman Hills landfill. A copy of the manifest is included in Appendix E.

### 6.0 POST REMEDIATION SAMPLING

Two sub-slab soil vapor samples were collected from two onsite borings (SV-1 and SV-2) located at the eastern and western portions of the Site (Figure 2) on February 10, 2012 and May 2, 2012. Soil vapor samples were collected from the borings in accordance with the approved Work Plan - Addendum I dated November 8, 2012.

The soil vapor samples were sent to McCampbell and analyzed for VOCs using TO-15; and oxygen, carbon dioxide, and methane using ASTM D 1946-90 on a normal 5-day turnaround basis. A summary of the soil vapor sample results are presented in Table 3. Laboratory certificates are included in Appendix C.

Laboratory analysis of the soil vapor samples indicated that VOC concentrations were generally below their respective commercial/industrial ESLs with the exception of PCE. The detectable PCE contained in soil vapor sample SV-1 collected in February 2012 and May 2012 was 100,000  $\mu\text{g}/\text{m}^3$  and 24,000  $\mu\text{g}/\text{m}^3$ , respectively. PCE concentrations detected in soil vapor sample SV-2 in February 2012 and May 2012 were 14,000  $\mu\text{g}/\text{m}^3$  and 13,000  $\mu\text{g}/\text{m}^3$ , respectively. All the above soil vapor PCE concentrations exceeded the commercial/industrial ESL of 1,400  $\mu\text{g}/\text{m}^3$ .

Oxygen, carbon dioxide, and methane levels contained in sample SV-1 collected on February 10, 2012 were 150,000  $\mu\text{L}/\text{L}$  (15%), 7,400  $\mu\text{L}/\text{L}$  (0.74%), and 5.4  $\mu\text{L}/\text{L}$  (0.00054%), respectively. McCampbell reported the oxygen, carbon dioxide, and methane levels in sample SV-1 collected on May 2, 2012 at 90,000  $\mu\text{L}/\text{L}$  (9%), 100,000  $\mu\text{L}/\text{L}$  (10%), and 2.5  $\mu\text{L}/\text{L}$  (0.00025%). The oxygen, carbon dioxide, and methane levels contained in sample SV-2 collected on February 10, 2012 were 110,000  $\mu\text{L}/\text{L}$  (11%), 49,000  $\mu\text{L}/\text{L}$  (4.9%), and 4.6  $\mu\text{L}/\text{L}$  (0.00046%); and 93,000  $\mu\text{L}/\text{L}$  (9.3%), 110,000  $\mu\text{L}/\text{L}$  (11%), and 6.0  $\mu\text{L}/\text{L}$  (0.0006%) on May 2, 2012.

## 7.0 DISCUSSION

The remedial activities consisted of excavating and disposing the PCE-impacted soil within the immediate vicinity of the dry cleaning machines at the eastern portion of the Site. The confirmation excavation sidewall and floor samples indicated that the impacted soil was completely removed. It is highly unlikely that PCE has migrated offsite according to the results of the soil sampling activities that were conducted along the sanitary sewer alignment. Post remediation soil vapor results showed a decreasing trend for PCE in the soil vapor beneath the Site. Additionally, a reduction in oxygen levels and an increase of carbon dioxide levels detected in the soil vapor samples indicated that bioremediation activities are occurring within the surficial soil of the Site.

## 8.0 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  
 SUPPLEMENTARY SOIL SAMPLE RESULTS  
 Sunny Piedmont Cleaners  
 Oakland, California

Sample ID	Depth (feet)	PID Reading (parts-per-million)	Tetrachloroethene (mg/kg)	VOCs (mg/kg)
B-4@5'	5.0	0.0	<0.005	<0.004-0.1
B-4@6'	6.0	0.0	NA	NA
B-4@8'	8.0	0.0	NA	NA
B-4@10'	10.0	0.0	NA	NA
Commercial/Industrial ESL (1)			0.70	---

Note:

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

NA = Not Analyzed

TABLE 2  
EXCAVATION SAMPLE RESULTS  
Sunny Piedmont Cleaners  
Oakland, California

Sample ID	Depth (feet)	Tetrachloroethene (mg/kg)	VOCs (mg/kg)
<b>EXCAVATION SIDEWALL SAMPLES</b>			
EXW-1	2.5	0.25	<0.008-0.20
EXW-2	2.5	0.11	<0.004-0.1
EXW-3	2.5	0.085	<0.004-0.1
EXW-4	2.5	0.11	<0.004-0.1
<b>EXCAVATION FLOOR SAMPLES</b>			
EXF-1	5.0	0.041	<0.004-0.1
Remedial Goal (1)		0.70	---

Note:

1. Remedial goal is based on RWQCB's commercial/industrial ESL for soil where groundwater is a current or potential source of drinking water.

TABLE 3  
SOIL VAPOR SAMPLE RESULTS  
Sunny Piedmont Cleaners  
Oakland, California

Sample ID	Date Sampled	Acetone (ug/m3)	Benzene (ug/m3)	Chloroform (ug/m3)	Ethanol (ug/m3)	Ethyl Acetate (ug/m3)	Ethylbenzene (ug/m3)	Hexane (ug/m3)	MIBK (ug/m3)	Methylene chloride (ug/m3)	Naphthalene (ug/m3)	PCE (ug/m3)	Toluene (ug/m3)	TCE (ug/m3)	Xylenes (ug/m3)	VOCs (ug/m3)	Oxygen (uL/L)	Methane (uL/L)	Carbon Dioxide (uL/L)
SV-1	2/10/2012	130	10	<9.9	<8.5	17	10	2,500	12	110	<11.0	100,000	33	500	41	<4.2-210.0	150,000	5.4	7,400
	5/2/2012	200	<6.5	28	<96.0	<7.3	11	580	<8.3	<7.1	<11.0	24,000	12	110	52	<4.2-210.0	90,000	2.5	100,000
SV-2	2/10/2012	290	6.7	19	350	35	<8.8	740	16	37	18	14,000	23	60	45	<4.2-210.0	110,000	4.6	49,000
	5/2/2012	150	8.1	<9.9	99	17	<8.8	530	17	<7.1	<11.0	13,000	26	83	<27.0	<4.2-210.0	93,000	6.0	110,000
Commercial/Industrial ESL		1,800,000	280	1,500	NE	NE	3,300	NE	NE	17,000	240	1,400	180,000	4,100	58,000	---	---	---	---

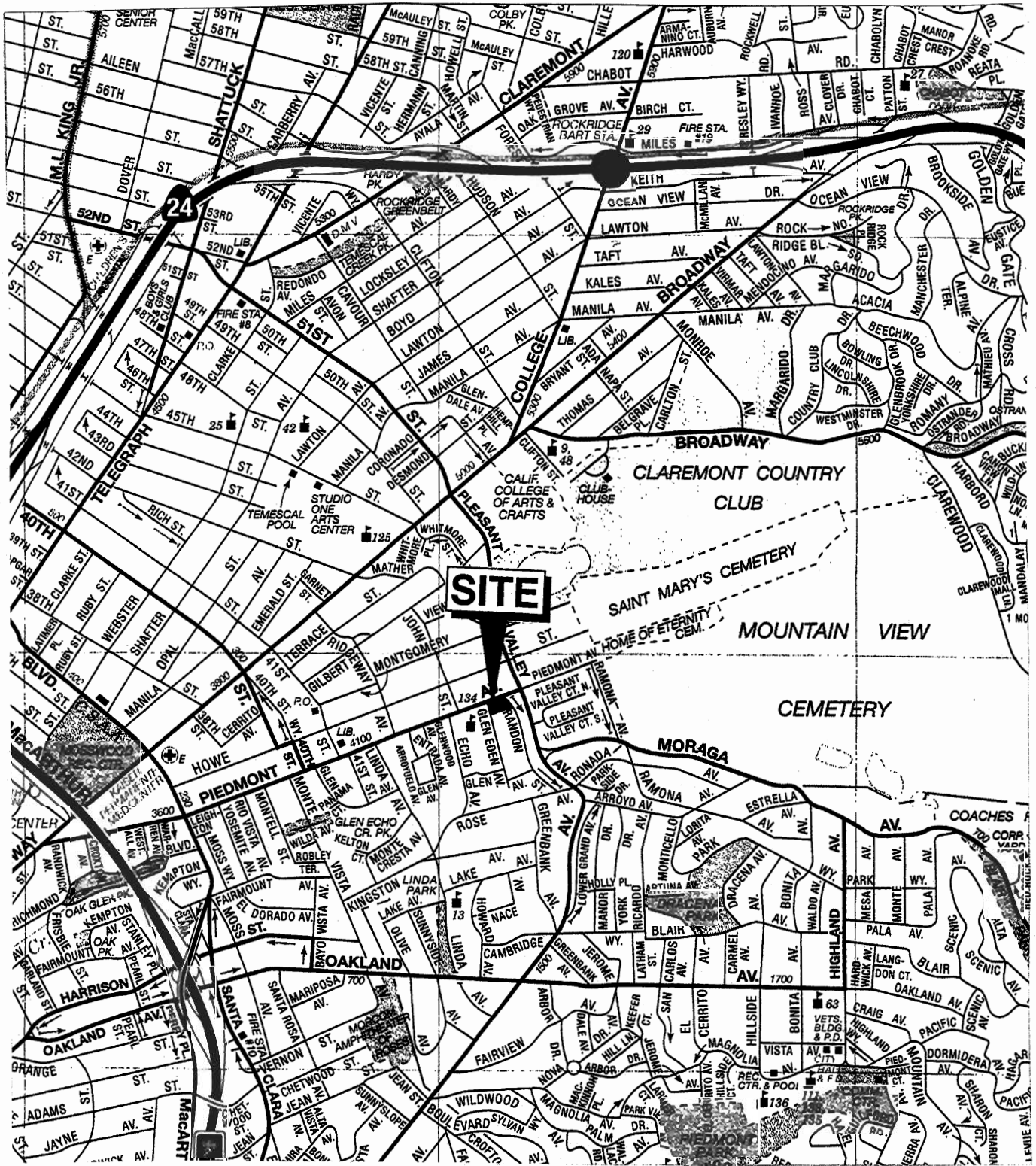
Notes:

NE = Not Established

MIBK = 4-Methyl-2-pentanone

PCE = Tetrachloroethene

TCE = Trichloroethene



MAP SOURCE :  
AAA

Scale: 1" = 1100 ft

May 2012



# SITE LOCATION

Sunny Piedmont Cleaners  
Oakland, California

Figure 1

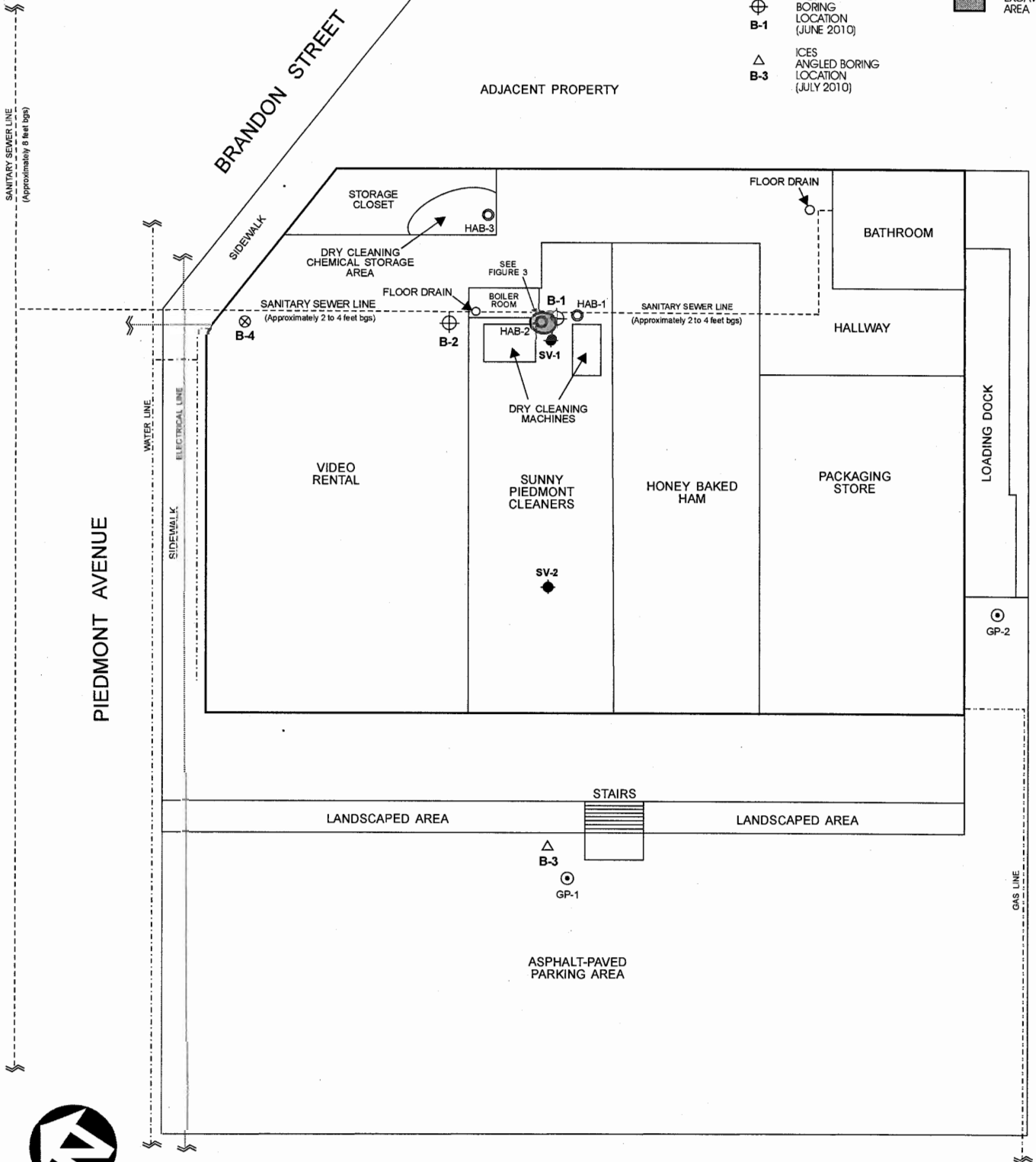
Project 7016



0 25  
APPROXIMATE SCALE (feet)

EXPLANATION:

- HAB-1 NOVA CONSULTING HAND AUGER SOIL BORING LOCATION (JUNE 2009)
- GP-1 NOVA CONSULTING GEOPROBE SOIL BORING LOCATION (JUNE 2009)
- B-1 ICES BORING LOCATION (JUNE 2010)
- B-3 ICES ANGLED BORING LOCATION (JULY 2010)
- B-4 ICES SOIL BORING LOCATION (FEB 2012)
- SV-1 ICES SOIL VAPOR BORING LOCATION (FEB/MAY 2012)
- EXCAVATED AREA



May 2012








**SITE PLAN**  
Sunny Piedmont Cleaners  
Oakland, California

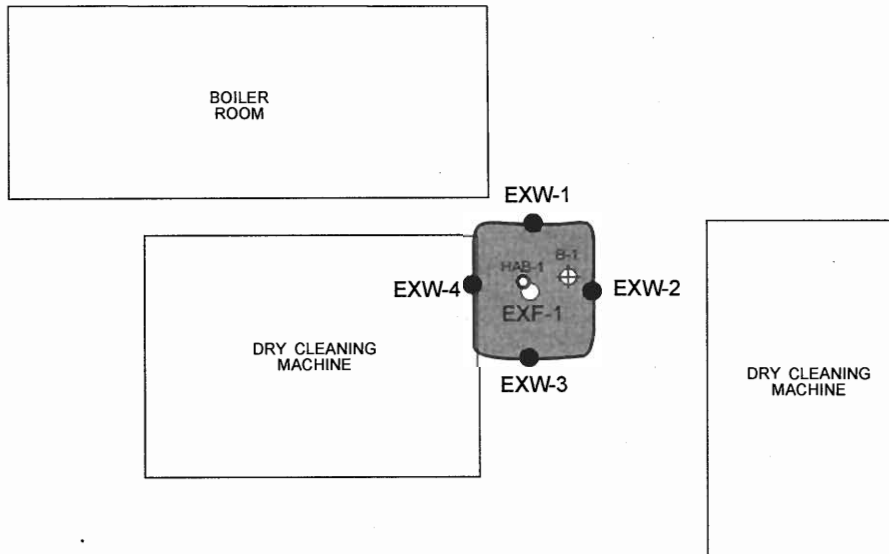
Figure **2**

Project 7016

0 5  
 APPROXIMATE SCALE (feet)

EXPLANATION:

-  HAB-1 NOVA CONSULTING HAND AUGER SOIL BORING LOCATION (JUNE 2009)
-  B-1 ICES BORING LOCATION (JUNE 2010)
-  EXCAVATED AREA
-  EXF-1 EXCAVATION FLOOR SAMPLE LOCATION
-  EXW-1 EXCAVATION WALL SAMPLE LOCATION



May 2012



**EXCAVATED AREA**  
 Sunny Piedmont Cleaners  
 Oakland, California

Figure **3**

Project 7016

APPENDIX A

PERMIT AND NOTIFICATION

# 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: 02/01/2012 By jamesy**

**Permit Numbers: W2012-0089**  
**Permits Valid from 02/14/2012 to 02/14/2012**

**Application Id:** 1327702894470  
**Site Location:** Sunny Piedmont Cleaners  
4364 Piedmont Avenue

**City of Project Site:**Oakland

**Project Start Date:** 02/14/2012  
**Assigned Inspector:** Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

**Completion Date:**02/14/2012

**Applicant:** ICES - Derek Wong  
3300 Powell Street #109, Emeryville, CA 94608  
**Property Owner:** Donna Clar  
230 Moraga, Orinda, CA 94563  
**Client:** Jimmy Koo  
4364 Piedmont Avenue, Oakland, CA 94611  
**Contact:** Derek Wong

**Phone:** 510-652-3222  
**Phone:** --  
**Phone:** --  
**Phone:** 510-652-3222  
**Cell:** --

	<b>Total Due:</b>	\$265.00
<b>Receipt Number: WR2012-0037</b>	<b>Total Amount Paid:</b>	\$265.00
<b>Payer Name : Derek Wong</b>	Paid By: VISA	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Borehole(s) for Investigation-Contamination Study - 1 Boreholes  
Driller: TEG - NORTHERN CALIFORNIA - Lic #: 706568 - Method: DP

**Work Total: \$265.00**

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0089	02/01/2012	05/14/2012	1	2.00 in.	10.00 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

## **Alameda County Public Works Agency - Water Resources Well Permit**

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 Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@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.

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.

---



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Regulation 8  
Rule 40

## REMOVAL OF UNDERGROUND STORAGE TANKS OR TREATMENT OF CONTAMINATED SOIL

### SITE OF ACTIVITY

Site Address: 4364 Piedmont Avenue City & Zip: Oakland 94611 Site#: \_\_\_\_\_  
 Specific Location of Project within Address: South of Piedmont Avenue, east of Glen Eden Avenue  
 Owner/Operator: Sunny Piedmont Cleaners

**Check any that apply (400 numbers refer to regulation section requiring reporting):**

- Tank Removal or Replacement (401)
- Contaminated Soil Excavation and Removal (402)
- Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption (403)
- Section 114 Exempt; Date Pipeline Leak **Started:** \_\_\_\_\_ Vol. Of Soil: \_\_\_\_\_ (403)
- Section 115 Exempt; Date Contamination Unrelated to UST Activities **Discovered:** \_\_\_\_\_ (405)

**If only Tank Removal is selected, attach results showing soil is not contaminated**

### CONTRACTOR INFORMATION

Name: ICES Site Contact: Derek Wong Phone: 510-652-3222  
 Address: P.O. Box 99288 Emeryville, CA 94662

### TANK REMOVAL (Section 401)

Scheduled Start Date: \_\_\_\_\_ Number and Size of Tank(s): \_\_\_\_\_

**Explain Methods of:**

Piping drainage or flushing (310.1) \_\_\_\_\_  
 Liquid and sludge removal (310.2) \_\_\_\_\_

Vapor removal (310.3) [Check One]  Water Displacement  Vapor Freeing\*  Ventilation\*

\* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

**COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)**

### CONTAMINATED SOIL EXCAVATION AND REMOVAL (Section 402)

Scheduled Start Date: 1-13-12 Scheduled Completion Date: 1-27-12

Purpose of Excavation: Soil Remedial Activities

Quantity of Soil: ~1-5 CY Organic Content & Type: PCE

Methods used to quantify and analyze soil: EPA Method 8260B

**Method of Stockpile Control (304-306)**

Water Spray  Covered  Vapor Suppressant (List Material Used): \_\_\_\_\_

**Method of Site Closure (306)**

Backfilled  Contaminated Soil Removed  
 Onsite Treatment (Describe): \_\_\_\_\_ A/C or P/O #: \_\_\_\_\_

Loaded Trucks Covered? (306.2)  Yes  No

### AERATION OF SOIL < 50 PPMW ORGANIC CONTENT (Section 403)

You must submit a Permit Application and Risk Screening Analysis (Forms will be sent to you)

### FOR BAAQMD USE ONLY

Fax/PM Date:	By:	Disp to I#:	Area:	Date:	By:
Inv Req Date:	By:	Fwd to Supv.		Date:	By:

**OTHER PUBLIC AGENCY CONTACTED (Fire District, Hazardous Materials, City or County)?**

Agency Name: Alameda County Environmental Health      Contact Name: Barbara Jakub

Address: 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577      Phone: 510-639-1287

**EMERGENCY REMOVAL ORDER APPLICABLE?**

Agency Name:      Contact Name:

Address:      Phone:

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**GENERAL INFORMATION**

- This notification form shall be used to notify the BAAQMD of any projects subject to the reporting requirements in Regulation 8, Rule 40, Sections 401 through 405. Notifications may be faxed to (415) 928-0338 or mailed to the address listed at the bottom of this form.
- An invoice for payment will be sent to the person listed under "Contractor Information" as the person responsible, unless the project is exempt from fee payment (see next item).
- See "Frequently Asked Questions" (FAQ) for definition of projects, change procedures, permit requirements, emergency conditions, project exemptions, and fee exemptions. For any questions not answered in the FAQ, contact the Compliance Assistance Counselor at (415) 749-4999.







**INSTRUCTIONS**

- **SITE OF ACTIVITY:** Give the site street address and indicate if it has any existing BAAQMD site number, for either a plant or GDF. Identify the specific project location if the site contains more than one building. Indicate all applicable activity types by checking appropriate boxes. For reporting requirements under Sections 401 through 403, additional information is required, as below.
- **CONTRACTOR INFORMATION:** Identify the contractor that is responsible for performing the work at the site location listed. This contractor is also responsible for payment of the applicable notification fee, if the project is not exempt.
- **SECTION 401 - TANK REMOVAL/REPLACEMENT:** All soils disturbed and/or excavated as part of the tank removal shall be subject to the requirements of Sections 304 through 306, unless the soil has been determined not to be contaminated by measurement of organic content using the procedures in Sections 601 and 602. Complete requirements for Section 402 or submit sample results showing that the soil is not contaminated.
- **SECTION 402 - CONTAMINATED SOIL EXCAVATION AND REMOVAL:**
  - Be as accurate as possible for the Scheduled Start and Completion Dates. Specific requirements apply for excavation projects triggered within either 45 or 90 days (Reg. 8-40-306.4) and Authority to Construct requirements for projects lasting longer than three months (Reg. 2-1-128.16).
  - If a vapor suppressant is used, attach a product data sheet or MSDS.
  - If Method of Site Closure used is Onsite Treatment, describe specific method, (e.g., bioremediation, vapor extraction, air sparging, thermal desorption, etc.).
  - If Onsite Treatment is used, indicate whether an Authority to Construct was obtained by providing the Application No. or attach copy of BAAQMD Certification of Exemption.
- **SECTION 403 – AERATION OF SOIL < 50 PPMW ORGANIC CONTENT:** Section 301 exempts from control the aeration of soil containing less than 50 ppmw of organic compounds, but Section 403 still requires reporting of **ANY** soil aeration. If such a project does not meet the exemption criteria of Section 118, then a Permit Application and Risk Screening Analysis must be submitted.
- **EMERGENCY REMOVAL INFORMATION (IF APPLICABLE):** The rule defines an emergency tank removal or excavation of contaminated soil as "carried out pursuant to an order of a state or local government agency issued because the contaminated soil poses an imminent threat to public health and safety." If the project(s) meet this definition, then identify the agency that issued the order. Under Section 402 requirements, on line two, identify the purpose as indicated in the order.

**APPENDIX B**

**BORING LOG**



Depth, Feet	LITHOLOGY		SAMPLE DATA	
	Graphic Log	Description	PID (ppm)	Interval Sample ID
0		CONCRETE - 6-INCHES THICK AGGREGATE BASEROCK	—	
0		CL SANDY CLAY, BROWN, DRY, NO ODOR OR STAINING.	—	
5		CL SANDY CLAY, TAN BROWN, DRY, NO ODOR OR STAINING.	0.0	B-4@5'
6		CL SANDY CLAY, TAN BROWN, DRY, NO ODOR OR STAINING.	0.0	B-4@6'
8		CL SANDY CLAY, TAN BROWN, DRY, NO ODOR OR STAINING.	0.0	B-4@8'
10		BORING TERMINATED @10 FEET. BACKFILLED WITH NEAT CEMENT GROUT.	0.0	B-4@10'
15				
20				
25				

Date Drilled: 2-10-2012  
 Driller: TEG  
 Drilling Method: Direct-Push  
 Logged By: Derek Wong  
 Checked By: Peng Leong, PE, #Co39707



**FIELD AND LITHOLOGIC LOG  
 FOR SOIL BORING B-4**  
 Sunny Piedmont Cleaners, Oakland, California

Project 7016

APPENDIX C

LABORATORY CERTIFICATES



## Analytical Report

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
		Date Received: 02/10/12
	Client Contact: Peng Leong	Date Reported: 02/16/12
	Client P.O.:	Date Completed: 02/16/12

**WorkOrder: 1202312**

February 16, 2012

Dear Peng:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **ICES 7016; Sunny Piedmont Cleaners**,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
	Client Contact: Peng Leong	Date Received: 02/10/12
	Client P.O.:	Date Extracted: 02/10/12
		Date Analyzed: 02/15/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1202312

Lab ID	1202312-001A
Client ID	B-4@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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	90	%SS2:	100
%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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 64811

WorkOrder: 1202312

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	0.050	82.5	81.4	1.39	95.3	70 - 130	30	50 - 135
Benzene	ND	0.050	97.3	95	2.46	107	70 - 130	30	70 - 137
t-Butyl alcohol (TBA)	ND	0.20	90.8	86.5	4.88	98.3	70 - 130	30	50 - 143
Chlorobenzene	ND	0.050	99.8	97.6	2.15	103	70 - 130	30	69 - 133
1,2-Dibromoethane (EDB)	ND	0.050	94.8	96.1	1.32	103	70 - 130	30	61 - 135
1,2-Dichloroethane (1,2-DCA)	ND	0.050	86.5	85.3	1.38	104	70 - 130	30	64 - 133
1,1-Dichloroethene	ND	0.050	110	107	2.74	114	70 - 130	30	70 - 142
Diisopropyl ether (DIPE)	ND	0.050	92.6	90.9	1.94	96.4	70 - 130	30	65 - 134
Ethyl tert-butyl ether (ETBE)	ND	0.050	89.6	87.6	2.23	97.9	70 - 130	30	61 - 127
Methyl-t-butyl ether (MTBE)	ND	0.050	89.9	86.9	3.50	101	70 - 130	30	65 - 130
Toluene	ND	0.050	109	106	2.58	110	70 - 130	30	70 - 146
Trichloroethene	ND	0.050	102	102	0	114	70 - 130	30	66 - 143
%SS1:	90	0.12	78	79	1.08	93	70 - 130	30	70 - 130
%SS2:	100	0.12	119	120	0.985	100	70 - 130	30	70 - 130
%SS3:	94	0.012	118	120	1.40	103	70 - 130	30	70 - 130

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

**BATCH 64811 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202312-001A	02/10/12 10:30 AM	02/10/12	02/15/12 7:36 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$ ;  $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$ .  
 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.



**McCAMPBELL ANALYTICAL, INC.**  
 1534 WILLOW PASS ROAD  
 PITTSBURG, CA 94565-1701  
 Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto: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

GeoTracker EDF  PDF  Excel  Write On (DW)

~~5 DAY~~

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](mailto:derek_ices@yahoo.com)  
 Tele: (510) 652-3222 Fax: (510) 652-3555  
 Project #: ICES 7016 Project Name:  
 Project Location: Sunny Piedmont Cleaners  
 Sampler Signature: *[Signature]*

**Analysis Request**

**Other**

**Comments**

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED								
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other				
B-4@5'	B-4	2-10-12	10:30	1			X					X						
B-4@6'	B-4	2-10-12	10:39	1			X					X						X
B-4@8'	B-4	2-10-12	10:55	1			X					X						X
B-4@10'	B-4	2-10-12	11:05	1			X					X						X

BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	
TPH as Diesel/Motor Oil (8015)	
Total Petroleum Oil & Grease (1664 / 8520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (BIVOCs)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
EPA 505 / 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's ONLY: Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
EPA 534.2 / 624 / 8260 (VOCs)	X
EPA 535.2 / 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	
HOLD	

**\*\* 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: <i>[Signature]</i>	Date: 2-10-12	Time: 1300	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 2/10	Time: 1555	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:

ICE/r 3.2  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_  
 APPROPRIATE CONTAINERS \_\_\_\_\_  
 PRESERVED IN LAB \_\_\_\_\_  
 VOAS O&G METALS OTHER  
 PRESERVATION pH<2

**McC Campbell Analytical, Inc.**



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 1202312

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) 652-3222   FAX: (510) 652-3555

Email: derek\_ices@yahoo.com  
cc:  
PO:  
ProjectNo: ICES 7016; Sunny Piedmont Cleaners

Bill to:

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

Requested TAT: 5 days

Date Received: 02/10/2012

Date Printed: 02/10/2012

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			
1202312-001	B-4@5'	Soil	2/10/2012 10:30	<input type="checkbox"/>	A														

Test Legend:

1	8260B_S	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.



## Analytical Report

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
		Date Received: 01/13/12
	Client Contact: Peng Leong	Date Reported: 01/13/12
	Client P.O.:	Date Completed: 01/13/12

**WorkOrder: 1201297**

January 13, 2012

Dear Peng:

Enclosed within are:

- 1) The results of the **5** analyzed samples from your project: **#ICES 7016; Sunny Piedmont Cleaners, Oakland C**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

***The analytical results relate only to the items tested.***





McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

ICES P.O. Box 99288 Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/13/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201297

Lab ID	1201297-001A
Client ID	EXW-1
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<0.10	2.0	0.05	tert-Amyl methyl ether (TAME)	ND<0.010	2.0	0.005
Benzene	ND<0.010	2.0	0.005	Bromobenzene	ND<0.010	2.0	0.005
Bromochloromethane	ND<0.010	2.0	0.005	Bromodichloromethane	ND<0.010	2.0	0.005
Bromoform	ND<0.010	2.0	0.005	Bromomethane	ND<0.010	2.0	0.005
2-Butanone (MEK)	ND<0.040	2.0	0.02	t-Butyl alcohol (TBA)	ND<0.10	2.0	0.05
n-Butyl benzene	ND<0.010	2.0	0.005	sec-Butyl benzene	ND<0.010	2.0	0.005
tert-Butyl benzene	ND<0.010	2.0	0.005	Carbon Disulfide	ND<0.010	2.0	0.005
Carbon Tetrachloride	ND<0.010	2.0	0.005	Chlorobenzene	ND<0.010	2.0	0.005
Chloroethane	ND<0.010	2.0	0.005	Chloroform	ND<0.010	2.0	0.005
Chloromethane	ND<0.010	2.0	0.005	2-Chlorotoluene	ND<0.010	2.0	0.005
4-Chlorotoluene	ND<0.010	2.0	0.005	Dibromochloromethane	ND<0.010	2.0	0.005
1,2-Dibromo-3-chloropropane	ND<0.0080	2.0	0.004	1,2-Dibromoethane (EDB)	ND<0.0080	2.0	0.004
Dibromomethane	ND<0.010	2.0	0.005	1,2-Dichlorobenzene	ND<0.010	2.0	0.005
1,3-Dichlorobenzene	ND<0.010	2.0	0.005	1,4-Dichlorobenzene	ND<0.010	2.0	0.005
Dichlorodifluoromethane	ND<0.010	2.0	0.005	1,1-Dichloroethane	ND<0.010	2.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.0080	2.0	0.004	1,1-Dichloroethene	ND<0.010	2.0	0.005
cis-1,2-Dichloroethene	ND<0.010	2.0	0.005	trans-1,2-Dichloroethene	ND<0.010	2.0	0.005
1,2-Dichloropropane	ND<0.010	2.0	0.005	1,3-Dichloropropane	ND<0.010	2.0	0.005
2,2-Dichloropropane	ND<0.010	2.0	0.005	1,1-Dichloropropene	ND<0.010	2.0	0.005
cis-1,3-Dichloropropene	ND<0.010	2.0	0.005	trans-1,3-Dichloropropene	ND<0.010	2.0	0.005
Diisopropyl ether (DIPE)	ND<0.010	2.0	0.005	Ethylbenzene	ND<0.010	2.0	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.010	2.0	0.005	Freon 113	ND<0.20	2.0	0.1
Hexachlorobutadiene	ND<0.010	2.0	0.005	Hexachloroethane	ND<0.010	2.0	0.005
2-Hexanone	ND<0.010	2.0	0.005	Isopropylbenzene	ND<0.010	2.0	0.005
4-Isopropyl toluene	ND<0.010	2.0	0.005	Methyl-t-butyl ether (MTBE)	ND<0.010	2.0	0.005
Methylene chloride	ND<0.010	2.0	0.005	4-Methyl-2-pentanone (MIBK)	ND<0.010	2.0	0.005
Naphthalene	ND<0.010	2.0	0.005	n-Propyl benzene	ND<0.010	2.0	0.005
Styrene	ND<0.010	2.0	0.005	1,1,1,2-Tetrachloroethane	ND<0.010	2.0	0.005
1,1,2,2-Tetrachloroethane	ND<0.010	2.0	0.005	Tetrachloroethene	0.25	2.0	0.005
Toluene	ND<0.010	2.0	0.005	1,2,3-Trichlorobenzene	ND<0.010	2.0	0.005
1,2,4-Trichlorobenzene	ND<0.010	2.0	0.005	1,1,1-Trichloroethane	ND<0.010	2.0	0.005
1,1,2-Trichloroethane	ND<0.010	2.0	0.005	Trichloroethene	ND<0.010	2.0	0.005
Trichlorofluoromethane	ND<0.010	2.0	0.005	1,2,3-Trichloropropane	ND<0.010	2.0	0.005
1,2,4-Trimethylbenzene	ND<0.010	2.0	0.005	1,3,5-Trimethylbenzene	ND<0.010	2.0	0.005
Vinyl Chloride	ND<0.010	2.0	0.005	Xylenes, Total	ND<0.010	2.0	0.005

**Surrogate Recoveries (%)**

%SS1:	89	%SS2:	116
%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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/13/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201297

Lab ID		1201297-002A					
Client ID		EXW-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	0.11	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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	85	%SS2:	122
%SS3:	100		

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

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/13/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201297

Lab ID	1201297-003A
Client ID	EXW-3
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	0.085	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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	87	%SS2:	123
%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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/13/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201297

Lab ID	1201297-004A
Client ID	EXW-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	0.11	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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	108	%SS2:	106
%SS3:	106		

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

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners, Oakland CA	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/13/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201297

Lab ID	1201297-005A
Client ID	EXF-1
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	0.041	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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	107	%SS2:	106
%SS3:	105		

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 63935

WorkOrder: 1201297

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1201195-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND<2.0	0.050	NR	NR	NR	113	70 - 130	30	70 - 130	
Benzene	ND<2.0	0.050	NR	NR	NR	107	70 - 130	30	70 - 130	
t-Butyl alcohol (TBA)	ND<20	0.20	NR	NR	NR	117	70 - 130	30	70 - 130	
Chlorobenzene	ND<2.0	0.050	NR	NR	NR	106	70 - 130	30	70 - 130	
1,2-Dibromoethane (EDB)	ND<1.6	0.050	NR	NR	NR	106	70 - 130	30	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND<1.6	0.050	NR	NR	NR	101	70 - 130	30	70 - 130	
1,1-Dichloroethene	ND<2.0	0.050	NR	NR	NR	106	70 - 130	30	70 - 130	
Diisopropyl ether (DIPE)	ND<2.0	0.050	NR	NR	NR	93.1	70 - 130	30	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND<2.0	0.050	NR	NR	NR	94.1	70 - 130	30	70 - 130	
Methyl-t-butyl ether (MTBE)	ND<2.0	0.050	NR	NR	NR	98.1	70 - 130	30	70 - 130	
Toluene	ND<2.0	0.050	NR	NR	NR	110	70 - 130	30	70 - 130	
Trichloroethene	ND<2.0	0.050	NR	NR	NR	112	70 - 130	30	70 - 130	
%SS1:	95	0.12	93	97	3.67	98	70 - 130	30	70 - 130	
%SS2:	118	0.12	117	117	0	127	70 - 130	30	70 - 130	
%SS3:	93	0.012	100	98	2.62	113	70 - 130	30	70 - 130	

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

BATCH 63935 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201297-001A	01/13/12 9:39 AM	01/13/12	01/13/12 2:17 PM	1201297-002A	01/13/12 9:40 AM	01/13/12	01/13/12 12:57 PM
1201297-003A	01/13/12 9:40 AM	01/13/12	01/13/12 1:37 PM	1201297-004A	01/13/12 9:41 AM	01/13/12	01/13/12 12:38 PM
1201297-005A	01/13/12 9:36 AM	01/13/12	01/13/12 1:17 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.

Same Day Rush



**McCAMPBELL ANALYTICAL, INC.**  
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 Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto: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  
**RUSH**  
 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](mailto:derek_ices@yahoo.com)  
 Tele: (510) 652-3222 Fax: (510) 652-3555  
 Project #: ICES 7016 Project Name:  
 Project Location: Sunny Piedmont Cleaners, Oakland, CA  
 Sampler Signature: *[Signature]*

Analysis Request										Other	Comments	
BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE												**Indicate here if these samples are potentially dangerous to handle:
TPH as Diesel/Motor Oil (8015)												
Total Petroleum Oil & Grease (1664 / 5520 L/D&E)												
Total Petroleum Hydrocarbons (418.1)												
EPA 502.2 / 601 / 8010 / 8021 (HVOCS)												
MTBE / BTEX ONLY (EPA 602 / 8021)												
EPA 505 / 608 / 8081 (CI Pesticides)												
EPA 608 / 8082 PCB'S ONLY; Aroclors / Congeners												
EPA 507 / 8141 (NP Pesticides)												
EPA 515 / 8151 (Acidic CI Herbicides)												
EPA 524.2 / 624 / 8260 (VOCs)												
EPA 525.2 / 625 / 8270 (SVOCs)												
EPA 8270 SIM / 8310 (PAHs / PNAS)												
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)												
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)												
Lead (200.7 / 200.8 / 6010 / 6020)												
Filter sample for DISSOLVED metals analysis												

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other		
EXW-1		1-13-12	9:39	1	MTBE		X					X				
EXW-2		1-13-12	9:40	1			X					X				
EXW-3		1-13-12	9:40	1			X					X				
EXW-4		1-13-12	9:41	1			X					X				
EXF-1		1-13-12	9:36	1	↓		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: <i>[Signature]</i>	Date: 1-13-12	Time: 10:26	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICET 10-8, ICE  
 GOOD CONDITION   
 HEAD SPACE ABSENT   
 DECHLORINATED IN LAB   
 APPROPRIATE CONTAINERS   
 PRESERVED IN LAB   
 VOAS O&G METALS OTHER  
 PRESERVATION pH<2



**McC Campbell Analytical, Inc.**

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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 1201297

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) 652-3222   FAX: (510) 652-3555

Email: derek\_ices@yahoo.com  
 cc:  
 PO:  
 ProjectNo: #ICES 7016; Sunny Piedmont Cleaners,  
 Oakland CA

Bill to:

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

Requested TAT: 0 day

Date Received: 01/13/2012

Date Printed: 01/13/2012

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	
1201297-001	EXW-1	Soil	1/13/2012 9:39	<input type="checkbox"/>	A												
1201297-002	EXW-2	Soil	1/13/2012 9:40	<input type="checkbox"/>	A												
1201297-003	EXW-3	Soil	1/13/2012 9:40	<input type="checkbox"/>	A												
1201297-004	EXW-4	Soil	1/13/2012 9:41	<input type="checkbox"/>	A												
1201297-005	EXF-1	Soil	1/13/2012 9:36	<input type="checkbox"/>	A												

Test Legend:

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

Prepared by: Maria Venegas

Comments: Same Day 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.





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## Analytical Report

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
		Date Received: 02/10/12
	Client Contact: Peng Leong	Date Reported: 02/17/12
	Client P.O.:	Date Completed: 02/17/12

**WorkOrder: 1202309**

February 17, 2012

Dear Peng:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#ICES 7016; Sunny Piedmont Cleaners**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

***The analytical results relate only to the items tested.***



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
	Client Contact: Peng Leong	Date Received: 02/10/12
	Client P.O.:	Date Extracted: 02/13/12-02/15/12
		Date Analyzed: 02/13/12-02/15/12

### Light Gases\*

Extraction Method: ASTM D 1946-90

Analytical Method: ASTM D 1946-90

Work Order: 1202309

Lab ID	1202309-001A	1202309-002A			Reporting Limit for DF=1 and Pressure Ratio (Final/Initial) = 2	
Client ID	SV-1	SV-2				
Matrix	Soil Gas	Soil Gas				
Initial Pressure (psia)	13.73	14.13				
Final Pressure (psia)	27.92	28.40				
DF	1	1				
					Soil Gas	W

Compound	Concentration				µL/L	ug/L
Carbon Dioxide	7400	49,000			50	NA
Methane	5.4	4.6			1.0	NA
Oxygen	150,000	110,000			4000	NA

### Surrogate Recoveries (%)

<b>Comments</b>					
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\* soil vapor samples are reported in µL/L.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12 Date Received: 02/10/12
	Client Contact: Peng Leong	Date Extracted: 02/14/12-02/16/12
	Client P.O.:	Date Analyzed: 02/14/12-02/16/12

### Leak Check Compound\*

Extraction method: TO15

Analytical methods: TO15

Work Order: 1202309

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
001A	SV-1	Soil Gas	13.73	27.92	ND	1	N/A	
002A	SV-2	Soil Gas	14.13	28.40	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	SoilGas	psia	psia	50	µg/m³

\* leak check compound is reported in µg/m³.

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

The IPA reference is:

DTSC, Advisory-Active Soil Gas Investigations, March 3rd, 2010, page 24, section 2.4:

"The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes."

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



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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
		Date Received: 02/10/12
	Client Contact: Peng Leong	Date Extracted: 02/16/12
	Client P.O.:	Date Analyzed: 02/16/12

### Volatile Organics by P&T and GC/MS in $\mu\text{g}/\text{m}^3$ \*

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1202309

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Tetrachloroethene	DF	% SS	Comments
001A	SV-1	Soil Gas	13.73	27.92	100,000	4	94	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	SoilGas	psia	psia	500	$\mu\text{g}/\text{m}^3$

\*soil vapor samples are reported in  $\mu\text{g}/\text{m}^3$ .

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
	Client Contact: Peng Leong	Date Received: 02/10/12
	Client P.O.:	Date Extracted: 02/14/12
		Date Analyzed: 02/14/12

**Volatile Organic Compounds in µg/m<sup>3</sup>\*\***

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1202309

Lab ID	1202309-001A	Initial Pressure (psia)	13.73
Client ID	SV-1	Final Pressure (psia)	27.92
Matrix	Soil Gas		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	130	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	10	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	ND	1.0	96	Ethyl acetate	17	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	10	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	2500	10	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	12	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	110	1.0	7.1	Naphthalene	ND	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrahydrofuran	ND	1.0	6.0	Toluene	33	1.0	7.7
1,2,4-Trichlorobenzene	ND	1.0	15	1,1,1-Trichloroethane	ND	1.0	11
1,1,2-Trichloroethane	ND	1.0	11	Trichloroethene	500	1.0	11
Trichlorofluoromethane	ND	1.0	11	1,2,4-Trimethylbenzene	ND	1.0	10
1,3,5-Trimethylbenzene	ND	1.0	10	Vinyl Acetate	ND	1.0	180
Vinyl Chloride	ND	1.0	5.2	Xylenes, Total	41	1.0	27

**Surrogate Recoveries (%)**

%SS1:	122	%SS2:	108
%SS3:	130		

Comments:

\*vapor samples are reported in µg/m<sup>3</sup>.

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

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny Piedmont Cleaners	Date Sampled: 02/10/12
	Client Contact: Peng Leong	Date Received: 02/10/12
	Client P.O.:	Date Extracted: 02/16/12
		Date Analyzed: 02/16/12

**Volatile Organic Compounds in µg/m<sup>3</sup>\***

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1202309

Lab ID	1202309-002A	Initial Pressure (psia)	14.13
Client ID	SV-2	Final Pressure (psia)	28.40
Matrix	Soil Gas		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	290	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	6.7	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	19	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	350	1.0	96	Ethyl acetate	35	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	ND	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	740	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	16	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	37	1.0	7.1	Naphthalene	18	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrachloroethene	14,000	10	14	Tetrahydrofuran	ND	1.0	6.0
Toluene	23	1.0	7.7	1,2,4-Trichlorobenzene	ND	1.0	15
1,1,1-Trichloroethane	ND	1.0	11	1,1,2-Trichloroethane	ND	1.0	11
Trichloroethene	60	1.0	11	Trichlorofluoromethane	ND	1.0	11
1,2,4-Trimethylbenzene	ND	1.0	10	1,3,5-Trimethylbenzene	ND	1.0	10
Vinyl Acetate	ND	1.0	180	Vinyl Chloride	ND	1.0	5.2
Xylenes, Total	45	1.0	27				

**Surrogate Recoveries (%)**

%SS1:	100	%SS2:	99
%SS3:	12		

Comments:

\*vapor samples are reported in µg/m<sup>3</sup>.

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

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



**QC SUMMARY REPORT FOR ASTM D 1946-90**

W.O. Sample Matrix: SoilGas

QC Matrix: SoilGas

BatchID: 64836

WorkOrder: 1202309

EPA Method: ASTM D 1946-90		Extraction: ASTM D 1946-90					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µL/L	µL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Carbon Dioxide	N/A	100	N/A	N/A	N/A	125	N/A	N/A	70 - 130	
Methane	N/A	10	N/A	N/A	N/A	103	N/A	N/A	70 - 130	
Oxygen	N/A	7000	N/A	N/A	N/A	112	N/A	N/A	70 - 130	

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

**BATCH 64836 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202309-001A	02/10/12 9:43 AM	02/13/12	02/13/12 3:22 PM	1202309-001A	02/10/12 9:43 AM	02/15/12	02/15/12 2:25 PM
1202309-001A	02/10/12 9:43 AM	02/15/12	02/15/12 7:33 PM	1202309-002A	02/10/12 9:00 AM	02/13/12	02/13/12 3:40 PM
1202309-002A	02/10/12 9:00 AM	02/15/12	02/15/12 2:49 PM	1202309-002A	02/10/12 9:00 AM	02/15/12	02/15/12 7:44 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soilgas

QC Matrix: Water

BatchID: 64961

WorkOrder: 1202309

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1202337-007B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	88.4	96.4	8.65	108	70 - 130	20	70 - 114	
Benzene	ND	10	92.6	94.8	2.32	109	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	87.3	103	16.2	109	70 - 130	20	56 - 115	
Chlorobenzene	ND	10	91.5	97.3	6.18	110	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	94.6	103	8.15	112	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	31	10	69.5, F1	93.7	6.24	102	70 - 130	20	70 - 130	
1,1-Dichloroethene	ND	10	87.4	94.9	8.22	119	70 - 130	20	69 - 132	
Diisopropyl ether (DIPE)	0.57	10	89	96.4	7.52	110	70 - 130	20	68 - 121	
Ethyl tert-butyl ether (ETBE)	ND	10	88	97.4	10.1	111	70 - 130	20	70 - 117	
Methyl-t-butyl ether (MTBE)	ND	10	87	97.2	10.7	110	70 - 130	20	68 - 117	
Toluene	ND	10	90.4	95.4	5.40	109	70 - 130	20	70 - 130	
Trichloroethene	ND	10	87.5	94.2	7.02	109	70 - 130	20	70 - 130	
%SS1:	80	25	82	83	1.17	83	70 - 130	20	70 - 130	
%SS2:	108	25	109	107	1.16	107	70 - 130	20	70 - 130	
%SS3:	113	2.5	110	110	0	111	70 - 130	20	70 - 130	

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

F1 = MS / MSD outside of acceptance criteria. LCS validates prep batch.

BATCH 64961 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202309-001A	02/10/12 9:43 AM	02/16/12	02/16/12 9:47 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.





### QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soilgas

QC Matrix: Soilgas

BatchID: 64796

WorkOrder: 1202309

Analyte	EPA Method: TO15 Extraction: TO15						Spiked Sample ID: N/A		
	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	n/L/L	n/L/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acrylonitrile	N/A	25	N/A	N/A	N/A	128	N/A	N/A	70 - 130
tert-Amyl methyl ether (TAME)	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
Benzene	N/A	25	N/A	N/A	N/A	105	N/A	N/A	70 - 130
Benzyl chloride	N/A	25	N/A	N/A	N/A	127	N/A	N/A	70 - 130
Bromodichloromethane	N/A	25	N/A	N/A	N/A	110	N/A	N/A	70 - 130
Bromoform	N/A	25	N/A	N/A	N/A	109	N/A	N/A	70 - 130
Carbon Disulfide	N/A	25	N/A	N/A	N/A	112	N/A	N/A	70 - 130
Carbon Tetrachloride	N/A	25	N/A	N/A	N/A	102	N/A	N/A	70 - 130
Chlorobenzene	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
Chloroethane	N/A	25	N/A	N/A	N/A	122	N/A	N/A	70 - 130
Chloroform	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
Chloromethane	N/A	25	N/A	N/A	N/A	122	N/A	N/A	70 - 130
Dibromochloromethane	N/A	25	N/A	N/A	N/A	108	N/A	N/A	70 - 130
1,2-Dibromo-3-chloropropane	N/A	25	N/A	N/A	N/A	116	N/A	N/A	70 - 130
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	106	N/A	N/A	70 - 130
1,3-Dichlorobenzene	N/A	25	N/A	N/A	N/A	98.5	N/A	N/A	70 - 130
1,4-Dichlorobenzene	N/A	25	N/A	N/A	N/A	94.2	N/A	N/A	70 - 130
Dichlorodifluoromethane	N/A	25	N/A	N/A	N/A	112	N/A	N/A	70 - 130
1,1-Dichloroethane	N/A	25	N/A	N/A	N/A	108	N/A	N/A	70 - 130
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	109	N/A	N/A	70 - 130
cis-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
trans-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
1,2-Dichloropropane	N/A	25	N/A	N/A	N/A	113	N/A	N/A	70 - 130
cis-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	110	N/A	N/A	70 - 130
trans-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	113	N/A	N/A	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	N/A	25	N/A	N/A	N/A	109	N/A	N/A	70 - 130
Diisopropyl ether (DIPE)	N/A	25	N/A	N/A	N/A	115	N/A	N/A	70 - 130
1,4-Dioxane	N/A	25	N/A	N/A	N/A	119	N/A	N/A	70 - 130
Ethyl acetate	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130
Ethyl tert-butyl ether (ETBE)	N/A	25	N/A	N/A	N/A	108	N/A	N/A	70 - 130
Ethylbenzene	N/A	25	N/A	N/A	N/A	108	N/A	N/A	70 - 130

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

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

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

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

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

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



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soilgas

QC Matrix: Soilgas

BatchID: 64796

WorkOrder: 1202309

EPA Method: TO15		Extraction: TO15					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	n/L/L	n/L/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Freon 113	N/A	25	N/A	N/A	N/A	106	N/A	N/A	70 - 130	
Hexachlorobutadiene	N/A	25	N/A	N/A	N/A	85.3	N/A	N/A	70 - 130	
4-Methyl-2-pentanone (MIBK)	N/A	25	N/A	N/A	N/A	122	N/A	N/A	70 - 130	
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	106	N/A	N/A	70 - 130	
Methylene chloride	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
Naphthalene	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
Styrene	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130	
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	106	N/A	N/A	70 - 130	
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	108	N/A	N/A	70 - 130	
Tetrachloroethene	N/A	25	N/A	N/A	N/A	96.3	N/A	N/A	70 - 130	
Tetrahydrofuran	N/A	25	N/A	N/A	N/A	112	N/A	N/A	70 - 130	
Toluene	N/A	25	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	96.5	N/A	N/A	70 - 130	
1,1,1-Trichloroethane	N/A	25	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
1,1,2-Trichloroethane	N/A	25	N/A	N/A	N/A	107	N/A	N/A	70 - 130	
Trichloroethene	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
1,2,4-Trimethylbenzene	N/A	25	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
1,3,5-Trimethylbenzene	N/A	25	N/A	N/A	N/A	101	N/A	N/A	70 - 130	
Vinyl Chloride	N/A	25	N/A	N/A	N/A	126	N/A	N/A	70 - 130	
%SS1:	N/A	500	N/A	N/A	N/A	105	N/A	N/A	70 - 130	
%SS2:	N/A	500	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
%SS3:	N/A	500	N/A	N/A	N/A	105	N/A	N/A	70 - 130	

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

BATCH 64796 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1202309-001A	02/10/12 9:43 AM	02/14/12	02/14/12 8:40 PM	1202309-001A	02/10/12 9:43 AM	02/14/12	02/14/12 10:05 PM
1202309-002A	02/10/12 9:00 AM	02/16/12	02/16/12 3:12 PM	1202309-002A	02/10/12 9:00 AM	02/16/12	02/16/12 5:05 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 \* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

1202309

**McCAMPBELL ANALYTICAL INC.**  
 1534 WILLOW PASS ROAD / PITTSBURG, CA 94565-1701  
 Website: [www.mccampbell.com](http://www.mccampbell.com) / Email: [main@mccampbell.com](mailto: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  
 EDF Required? Coelt (Normal) No Write On (DW) No  
 Lab Use Only

Report To: Peng Leong Bill To: Same

Company: ICES  
 3300 Powell Street #109  
 Emeryville, CA 94662 E-Mail: [derek\\_ices@yahoo.com](mailto:derek_ices@yahoo.com)  
 Tele: (510) 652-3222 Fax: (510) 652-3559

Pressurized By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Pressurization Gas: N2 \_\_\_\_\_ He \_\_\_\_\_

Project #: ICES 7016 Project Name: \_\_\_\_\_

Helium Shroud SN#: \_\_\_\_\_

Project Location: Sunny Piedmont Cleaners

Other: \_\_\_\_\_

Sampler Signature: *[Signature]*

Notes: \_\_\_\_\_

Field Sample ID (Location)	Collection		Canister SN#	Manifold / Sampler Kit SN#
	Date	Time		
SV-1	2-10-12	9:43	CAN5801-732	MAN316-763
SV-2	2-10-12	9:00	CAN5807-738	MAN316-817

Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum			
			Initial	Final	Receipt	Final (psi)
VOCs (TO-15), Oxygen, Carbon Dioxide, Methane		X	29.5	3		
VOCs (TO-15), Oxygen, Carbon Dioxide, Methane		X	30.0	3		

Relinquished By: *[Signature]* Date: 2-10-12 Time: 1300 Received By: *[Signature]*

Temp (°C): *n/a* Work Order #: 1202309

Relinquished By: *[Signature]* Date: 2/10 Time: 1555 Received By: *[Signature]*

Equipment Condition: *good*

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Shipped Via: *BY (MT carrier)*

**McC Campbell Analytical, Inc.**



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 1202309

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) 652-3222   FAX: (510) 652-3555

Email: derek\_ices@yahoo.com  
cc:  
PO:  
ProjectNo: #ICES 7016; Sunny Piedmont Cleaners

Bill to:

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

Requested TAT: **5 days**

Date Received: **02/10/2012**

Date Printed: **02/10/2012**

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	
1202309-001	SV-1	Soil Gas	2/10/2012 9:43	<input type="checkbox"/>	A	A											
1202309-002	SV-2	Soil Gas	2/10/2012 9:00	<input type="checkbox"/>	A	A											

**Test Legend:**

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

The following SampleIDs: 001A, 002A 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.



## Analytical Report

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Reported: 05/09/12
	Client P.O.:	Date Completed: 05/09/12

**WorkOrder: 1205066**

May 09, 2012

Dear Peng:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **ICES 7016**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Extracted: 05/03/12-05/04/12
	Client P.O.:	Date Analyzed: 05/03/12-05/04/12

### Light Gases\*

Extraction Method: ASTM D 1946-90

Analytical Method: ASTM D 1946-90

Work Order: 1205066

Lab ID	1205066-001A	1205066-002A			Reporting Limit for DF =1 and Pressure Ratio (Final/Initial) = 2	
Client ID	SV-1	SV-2				
Matrix	Soil Gas	Soil Gas				
Initial Pressure (psia)	13.06	12.65				
Final Pressure (psia)	26.17	25.07				
DF	1	1				
					Soil Gas	W

Compound	Concentration				µL/L	ug/L
Carbon Dioxide	100,000	110,000			50	NA
Methane	2.5	6.0			1.0	NA
Oxygen	90,000	93,000			4000	NA

### Surrogate Recoveries (%)

%SS:	N/A	N/A			
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Comments					
----------	--	--	--	--	--

\* soil vapor samples are reported in µL/L.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



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ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Extracted: 05/08/12
	Client P.O.:	Date Analyzed: 05/08/12

**Volatile Organics by P&T and GC/MS in µg/m³\***

Extraction method: SW5030B

Analytical methods: SW8260B

Work Order: 1205066

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Tetrachloroethene	DF	% SS	Comments
001A	SV-1	Soil Gas	13.06	26.17	24,000	1		
002A	SV-2	Soil Gas	12.65	25.07	13,000	1		

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	SoilGas	psia	psia	500	µg/m³

\*soil vapor samples are reported in µg/m³.

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

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

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



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 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 http://www.mcccampbell.com / E-mail: main@mcccampbell.com

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Extracted: 05/08/12
	Client P.O.:	Date Analyzed: 05/08/12

### Leak Check Compound\*

Extraction method: TO15

Analytical methods: TO15

Work Order: 1205066

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
001A	SV-1	Soil Gas	13.06	26.17	ND	1	N/A	
002A	SV-2	Soil Gas	12.65	25.07	ND	1	N/A	


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	psia	psia	NA	NA
	SoilGas	psia	psia	50	µg/m³

\* leak check compound is reported in µg/m³.

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

The IPA reference is:  
 DTSC, Advisory-Active Soil Gas Investigations, March 3rd, 2010, page 24, section 2.4:  
 "The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes."

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

 Angela Rydelius, Lab Manager





ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Extracted: 05/08/12
	Client P.O.:	Date Analyzed: 05/08/12

**Volatile Organic Compounds in µg/m<sup>3</sup>\*\***

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1205066

Lab ID	1205066-001A	Initial Pressure (psia)	13.06
Client ID	SV-1	Final Pressure (psia)	26.17
Matrix	Soil Gas		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	200	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	ND	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	28	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	ND	1.0	96	Ethyl acetate	ND	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	11	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	580	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	ND	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrahydrofuran	ND	1.0	6.0	Toluene	12	1.0	7.7
1,2,4-Trichlorobenzene	ND	1.0	15	1,1,1-Trichloroethane	ND	1.0	11
1,1,2-Trichloroethane	ND	1.0	11	Trichloroethene	110	1.0	11
Trichlorofluoromethane	ND	1.0	11	1,2,4-Trimethylbenzene	ND	1.0	10
1,3,5-Trimethylbenzene	ND	1.0	10	Vinyl Acetate	ND	1.0	180
Vinyl Chloride	ND	1.0	5.2	Xylenes, Total	52	1.0	27

**Surrogate Recoveries (%)**

%SS1:	107	%SS2:	104
%SS3:	98		

**Comments:**

\*vapor samples are reported in µg/m<sup>3</sup>.

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

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

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



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: ICES 7016	Date Sampled: 05/02/12
		Date Received: 05/02/12
	Client Contact: Peng Leong	Date Extracted: 05/08/12
	Client P.O.:	Date Analyzed: 05/08/12

**Volatile Organic Compounds in  $\mu\text{g}/\text{m}^3$ \***

Extraction Method: TO15

Analytical Method: TO15

Work Order: 1205066

Lab ID	1205066-002A	Initial Pressure (psia)	12.65
Client ID	SV-2	Final Pressure (psia)	25.07
Matrix	Soil Gas		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	150	1.0	120	Acrylonitrile	ND	1.0	4.4
tert-Amyl methyl ether (TAME)	ND	1.0	8.5	Benzene	8.1	1.0	6.5
Benzyl chloride	ND	1.0	11	Bromodichloromethane	ND	1.0	14
Bromoform	ND	1.0	21	Bromomethane	ND	1.0	7.9
1,3-Butadiene	ND	1.0	4.5	2-Butanone (MEK)	ND	1.0	150
t-Butyl alcohol (TBA)	ND	1.0	62	Carbon Disulfide	ND	1.0	6.3
Carbon Tetrachloride	ND	1.0	13	Chlorobenzene	ND	1.0	9.4
Chloroethane	ND	1.0	5.4	Chloroform	ND	1.0	9.9
Chloromethane	ND	1.0	4.2	Cyclohexane	ND	1.0	180
Dibromochloromethane	ND	1.0	17	1,2-Dibromo-3-chloropropane	ND	1.0	20
1,2-Dibromoethane (EDB)	ND	1.0	16	1,2-Dichlorobenzene	ND	1.0	12
1,3-Dichlorobenzene	ND	1.0	12	1,4-Dichlorobenzene	ND	1.0	12
Dichlorodifluoromethane	ND	1.0	10	1,1-Dichloroethane	ND	1.0	8.2
1,2-Dichloroethane (1,2-DCA)	ND	1.0	8.2	1,1-Dichloroethene	ND	1.0	8.1
cis-1,2-Dichloroethene	ND	1.0	8.1	trans-1,2-Dichloroethene	ND	1.0	8.1
1,2-Dichloropropane	ND	1.0	9.4	cis-1,3-Dichloropropene	ND	1.0	9.2
trans-1,3-Dichloropropene	ND	1.0	9.2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.0	14
Diisopropyl ether (DIPE)	ND	1.0	8.5	1,4-Dioxane	ND	1.0	7.3
Ethanol	99	1.0	96	Ethyl acetate	17	1.0	7.3
Ethyl tert-butyl ether (ETBE)	ND	1.0	8.5	Ethylbenzene	ND	1.0	8.8
4-Ethyltoluene	ND	1.0	10	Freon 113	ND	1.0	16
Heptane	ND	1.0	210	Hexachlorobutadiene	ND	1.0	22
Hexane	530	1.0	180	2-Hexanone	ND	1.0	210
4-Methyl-2-pentanone (MIBK)	17	1.0	8.3	Methyl-t-butyl ether (MTBE)	ND	1.0	7.3
Methylene chloride	ND	1.0	7.1	Naphthalene	ND	1.0	11
Propene	ND	1.0	88	Styrene	ND	1.0	8.6
1,1,1,2-Tetrachloroethane	ND	1.0	14	1,1,2,2-Tetrachloroethane	ND	1.0	14
Tetrahydrofuran	ND	1.0	6.0	Toluene	26	1.0	7.7
1,2,4-Trichlorobenzene	ND	1.0	15	1,1,1-Trichloroethane	ND	1.0	11
1,1,2-Trichloroethane	ND	1.0	11	Trichloroethene	83	1.0	11
Trichlorofluoromethane	ND	1.0	11	1,2,4-Trimethylbenzene	ND	1.0	10
1,3,5-Trimethylbenzene	ND	1.0	10	Vinyl Acetate	ND	1.0	180
Vinyl Chloride	ND	1.0	5.2	Xylenes, Total	ND	1.0	27

**Surrogate Recoveries (%)**

%SS1:	106	%SS2:	101
%SS3:	87		

**Comments:**

\*vapor samples are reported in  $\mu\text{g}/\text{m}^3$ .

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

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

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



QC SUMMARY REPORT FOR ASTM D 1946-90

W.O. Sample Matrix: SoilGas

QC Matrix: SoilGas

BatchID: 67271

WorkOrder: 1205066

EPA Method: ASTM D 1946-90		Extraction: ASTM D 1946-90					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µL/L	µL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Carbon Dioxide	N/A	100	N/A	N/A	N/A	120	N/A	N/A	70 - 130	
Methane	N/A	10	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
Oxygen	N/A	7000	N/A	N/A	N/A	98	N/A	N/A	70 - 130	

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

BATCH 67271 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205066-001A	05/02/12 7:58 AM	05/03/12	05/03/12 3:01 PM	1205066-001A	05/02/12 7:58 AM	05/04/12	05/04/12 12:38 PM
1205066-001A	05/02/12 7:58 AM	05/04/12	05/04/12 3:38 PM	1205066-002A	05/02/12 8:37 AM	05/03/12	05/03/12 3:22 PM
1205066-002A	05/02/12 8:37 AM	05/04/12	05/04/12 12:49 PM	1205066-002A	05/02/12 8:37 AM	05/04/12	05/04/12 3:12 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.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Soilgas

QC Matrix: Water

BatchID: 67408

WorkOrder: 1205066

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1205208-001J			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	111	113	1.50	110	70 - 130	20	70 - 130	
Benzene	ND	10	102	99.1	2.90	110	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	105	106	0.771	99	70 - 130	20	70 - 130	
Chlorobenzene	ND	10	98.9	99.1	0.196	108	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	106	106	0	109	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	109	107	2.41	107	70 - 130	20	70 - 130	
1,1-Dichloroethene	ND	10	93.6	89.2	4.80	101	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	111	110	1.34	110	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	113	112	0.557	110	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	110	109	0.875	105	70 - 130	20	70 - 130	
Toluene	ND	10	94.6	93.7	0.942	106	70 - 130	20	70 - 130	
Trichloroethene	ND	10	95.1	93.5	1.69	105	70 - 130	20	70 - 130	
%SS1:	111	25	111	108	2.26	108	70 - 130	20	70 - 130	
%SS2:	98	25	97	96	0.440	98	70 - 130	20	70 - 130	
%SS3:	102	2.5	106	105	1.61	107	70 - 130	20	70 - 130	

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

BATCH 67408 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205066-001A	05/02/12 7:58 AM	05/08/12	05/08/12 2:00 PM	1205066-002A	05/02/12 8:37 AM	05/08/12	05/08/12 2:39 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soilgas

QC Matrix: Soilgas

BatchID: 67373

WorkOrder: 1205066

EPA Method: TO15		Extraction: TO15				Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acrylonitrile	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
tert-Amyl methyl ether (TAME)	N/A	25	N/A	N/A	N/A	97.3	N/A	N/A	70 - 130
Benzene	N/A	25	N/A	N/A	N/A	97.7	N/A	N/A	70 - 130
Benzyl chloride	N/A	25	N/A	N/A	N/A	112	N/A	N/A	70 - 130
Bromodichloromethane	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
Bromoform	N/A	25	N/A	N/A	N/A	102	N/A	N/A	70 - 130
Carbon Disulfide	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
Carbon Tetrachloride	N/A	25	N/A	N/A	N/A	101	N/A	N/A	70 - 130
Chlorobenzene	N/A	25	N/A	N/A	N/A	98.7	N/A	N/A	70 - 130
Chloroethane	N/A	25	N/A	N/A	N/A	84.4	N/A	N/A	70 - 130
Chloroform	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
Chloromethane	N/A	25	N/A	N/A	N/A	106	N/A	N/A	70 - 130
Dibromochloromethane	N/A	25	N/A	N/A	N/A	101	N/A	N/A	70 - 130
1,2-Dibromo-3-chloropropane	N/A	25	N/A	N/A	N/A	88.3	N/A	N/A	70 - 130
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
1,3-Dichlorobenzene	N/A	25	N/A	N/A	N/A	97.8	N/A	N/A	70 - 130
1,4-Dichlorobenzene	N/A	25	N/A	N/A	N/A	96.8	N/A	N/A	70 - 130
Dichlorodifluoromethane	N/A	25	N/A	N/A	N/A	103	N/A	N/A	70 - 130
1,1-Dichloroethane	N/A	25	N/A	N/A	N/A	97.1	N/A	N/A	70 - 130
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	99.7	N/A	N/A	70 - 130
cis-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	98.8	N/A	N/A	70 - 130
trans-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	98.9	N/A	N/A	70 - 130
1,2-Dichloropropane	N/A	25	N/A	N/A	N/A	97.9	N/A	N/A	70 - 130
cis-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
trans-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	104	N/A	N/A	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	N/A	25	N/A	N/A	N/A	102	N/A	N/A	70 - 130
Diisopropyl ether (DIPE)	N/A	25	N/A	N/A	N/A	95.8	N/A	N/A	70 - 130
1,4-Dioxane	N/A	25	N/A	N/A	N/A	101	N/A	N/A	70 - 130
Ethyl acetate	N/A	25	N/A	N/A	N/A	95.7	N/A	N/A	70 - 130
Ethyl tert-butyl ether (ETBE)	N/A	25	N/A	N/A	N/A	98.3	N/A	N/A	70 - 130
Ethylbenzene	N/A	25	N/A	N/A	N/A	97.8	N/A	N/A	70 - 130

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

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

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

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

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

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



QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Soilgas

QC Matrix: Soilgas

BatchID: 67373

WorkOrder: 1205066

EPA Method: TO15		Extraction: TO15					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Freon 113	N/A	25	N/A	N/A	N/A	96.9	N/A	N/A	70 - 130	
Hexachlorobutadiene	N/A	25	N/A	N/A	N/A	103	N/A	N/A	70 - 130	
4-Methyl-2-pentanone (MIBK)	N/A	25	N/A	N/A	N/A	99.1	N/A	N/A	70 - 130	
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	99.6	N/A	N/A	70 - 130	
Methylene chloride	N/A	25	N/A	N/A	N/A	88.7	N/A	N/A	70 - 130	
Naphthalene	N/A	25	N/A	N/A	N/A	83	N/A	N/A	70 - 130	
Styrene	N/A	25	N/A	N/A	N/A	99.5	N/A	N/A	70 - 130	
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	96.1	N/A	N/A	70 - 130	
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
Tetrachloroethene	N/A	25	N/A	N/A	N/A	93.8	N/A	N/A	70 - 130	
Tetrahydrofuran	N/A	25	N/A	N/A	N/A	92.2	N/A	N/A	70 - 130	
Toluene	N/A	25	N/A	N/A	N/A	98	N/A	N/A	70 - 130	
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	90.9	N/A	N/A	70 - 130	
1,1,1-Trichloroethane	N/A	25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
1,1,2-Trichloroethane	N/A	25	N/A	N/A	N/A	98.7	N/A	N/A	70 - 130	
Trichloroethene	N/A	25	N/A	N/A	N/A	96	N/A	N/A	70 - 130	
1,2,4-Trimethylbenzene	N/A	25	N/A	N/A	N/A	96.8	N/A	N/A	70 - 130	
1,3,5-Trimethylbenzene	N/A	25	N/A	N/A	N/A	93.9	N/A	N/A	70 - 130	
Vinyl Chloride	N/A	25	N/A	N/A	N/A	113	N/A	N/A	70 - 130	
%SS1:	N/A	500	N/A	N/A	N/A	102	N/A	N/A	70 - 130	
%SS2:	N/A	500	N/A	N/A	N/A	103	N/A	N/A	70 - 130	
%SS3:	N/A	500	N/A	N/A	N/A	104	N/A	N/A	70 - 130	

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

BATCH 67373 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205066-001A	05/02/12 7:58 AM	05/08/12	05/08/12 7:55 AM	1205066-001A	05/02/12 7:58 AM	05/08/12	05/08/12 7:55 AM
1205066-002A	05/02/12 8:37 AM	05/08/12	05/08/12 8:37 AM	1205066-002A	05/02/12 8:37 AM	05/08/12	05/08/12 8:37 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

1205066

<b>McCAMPBELL ANALYTICAL INC.</b> 1534 Willow Pass Road Pittsburg, CA 94565-1701 www.main@mccampbell.com Telephone: (925) 252-9262 Fax: (925) 252-9269					<b>CHAIN OF CUSTODY RECORD</b> <b>TURN AROUND TIME</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> RUSH 24 HR 48 HR 72 HR 5 DAY EDF Required? Coelt (Normal) No Write On (DW) No						
Report To: Peng Leong		Bill To: Same			Lab Use Only						
Company: ICES					Pressurized By	Date	Pressurization Gas				
P.O. Box 99288		E-Mail: derek_ices@yahoo.com					N2	He			
Emeryville, CA 94662		Fax: (510) 652-3555									
Tele: (510) 652-3222		Project #: ICES 7016			Project Name:						
Project Location: Sunny Piedmont Cleaners					Notes:						
Sampler Signature: <i>PL</i>											
Field Sample ID (Location)	Collection		Canister SN#	Manifold/Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum			
	Date	Time						Initial	Final	Receipt	Final (psi)
SV-1	5-2-12	7:58	CAN4785-903	MAN316-813	VOCs (TO-15), Oxygen, Carbon Dioxide, Methane		X	-30	-5		
SV-2	5-2-12	8:37	CAN4707-598	MAN316-846	VOCs (TO-15), Oxygen, Carbon Dioxide, Methane		X	-29.5	-5		
Relinquished By: <i>[Signature]</i>	Date: 5/2/12	Time: 11:55	Received By: <i>[Signature]</i>	Temp (°C): _____ Work Order #: 1205066							
Relinquished By: <i>[Signature]</i>	Date: 5/3/12	Time: 1:00	Received By: <i>[Signature]</i>	Condition: _____							
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Custody Seals Intact?: Yes _____ No _____ None _____							
				Shipped Via: _____							

McC Campbell Analytical, Inc.



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 1205066

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) 652-3222   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: 05/02/2012

Date Printed: 05/02/2012

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	
1205066-001	SV-1	Soil Gas	5/2/2012 7:58	<input type="checkbox"/>	A	A											
1205066-002	SV-2	Soil Gas	5/2/2012 8:37	<input type="checkbox"/>	A	A											

Test Legend:

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

The following SamplIDs: 001A, 002A 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.



APPENDIX D

WASTE PROFILE



Generator's Hazardous Waste Profile Sheet

Service Agreement on file?  Yes  No Profile Number CA579401

Check here if there are multiple generating locations for this waste. Attach addition locations.

Check here if a Certificate of Destruction or Disposal is required.

Requested Disposal Facility: Kettleman Hills (Hazardous Waste Facility)

Renewal for Profile Number: Waste Approval Expiration Date:

**A. Waste Generator Facility Information (must reflect location of waste generation/origin)**

1. Generator Name: Sunny Piedmont Cleaners 7. Email Address: jimmykoo9@yahoo.com
2. Site Address: 4364 Piedmont Avenue 8. Phone: (510) 658-2119
3. City/ZIP: Oakland, 94611 9. FAX:
4. State: CA 10. NAICS Code:
5. County: Alameda 11. Generator USEPA ID #: CAC002688317
6. Contact Name/Title: Jimmy Koo/Owner 12. State ID# (if applicable):

**B. Customer Information**  same as above

P. O. Number:

1. Customer Name: ICES 6. Phone: 510-652-3222 FAX: 510-652-3555
2. Billing Address: 3300 Powell Street #109 7. Transporter Name:
3. City, State and ZIP: Emeryville, CA, 94608 8. Transporter ID # (if appl.):
4. Contact Name: Derek Wong 9. Transporter Address:
5. Contact Email: derek\_ices@yahoo.com 10. City, State and ZIP:

**C. Waste Stream Information**

USEPA Hazardous  State Hazardous  TSCA

1. Description
a. Name of Waste: PCE-Impacted Soil
b. Process Generating Waste: Remedial Activities
c. Color: BROWN
d. Strong Odor (describe): None
e. Physical State at 70°F:  Solid  Liquid  Gas  Sludge  Other:
f. Layers?  Single layer  Multi-layer
g. Free Liquid Range (%) to Specific Gravity: NA Viscosity: NA BTU/lb: NA
h. pH Range: N/A to  NA (Solid)
i. Liquid Flash Point:  < 140°F  140°- 199°F  ≥ 200°F  NA(solid)
2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f.  Yes  No
a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U). F002
b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply (40 CFR 268.48)?  Yes  No
c. Is the waste subject to RCRA Subpart CC Controls (40 CFR 264.1083 & 265.1084)?  ? Click for Add'l Info  Yes  No
1. If no, does the waste meet the organic LDR Exemption?  Yes  No
2. If no, does the waste contain <500 ppm volatile organic (VOC's)?  Yes  No
3. Volatile organic concentration 0.039 ppm.
d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)?  Yes  No
e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards (40 CFR 268.49)?  Yes  No
1. If yes, will Underlying Hazardous Constituents apply? (list in C.2.j)  Yes  No
f. Does the waste represented by this profile contain asbestos?  Yes  No
2. If yes:  Friable  Non-Friable
g. Does the waste represented by this profile contain benzene?  Yes  No
1. Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)?  Yes  No
If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire.



C. Waste Stream Information (continued)

- h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)?
1. If yes, does the waste contain <500 ppm VOHAPs at the point of determination?
i. Does the waste represented by this waste profile sheet contain Polychlorinated Biphenyls (PCBs)?
1. If yes, are the PCBs regulated by 40 CFR 761?
2. If yes, is it remediation waste from a project being performed under the Self-Implementing option provided in 40 CFR 761.61(a)?
3. If yes, were the PCBs imported into the US?
j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Table with 5 columns: Constituents (Total Composition Must be ≥ 100%), Lower Range, Unit of Measure, Upper Range, Unit of Measure. Row 1: Soil 100%, mg/kg, 0.039.

- k. Check any that apply: Pyrophoric, Water Reactive, OSHA Carcinogen, Shock Sensitive, Oxidizer, Infectious
l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP?
1. If yes, is it a Table 8 or Table 9 compound?
m. Does the waste represented by this waste profile sheet contain radioactive material?
1. Is disposal regulated by the Nuclear Regulatory Commission?
2. If NORM, identify isotopes and concentration, pCi/g.
n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up?
1. If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.
o. Is this a State Hazardous Waste?
1. If yes, please list applicable codes: 611
If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

- 1. Quantity of Waste
a. One Time Event, Base, Repeat Event
b. Estimated Annual Quantity: 2 Tons, Yards, Drums, Other (specify)
c. Shipping Frequency: Units, Per: Month, Quarter, Year, One Time, Other
2. Shipping Information
a. Packaging: Roll off/End dump, Drum Type/Size: 55-gallon, Tanker, Super Sack, Tote Bin, Cubic Yard Boxes, Other, Vacuum Box
b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material (If no, skip c, d and e)?
c. Reportable Quantity (lbs.; kgs.):
d. Primary/Subsidiary Hazard Class(es)/ID#:
e. USDOT Shipping Name: PG:

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is a representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification.

Certification Signature: [Signature] Title: Owner

Company Name: Sunny Piedmont Cleaners Name (Print): Jimmy Koo

Date: 3-23-12



# HAZARDOUS WASTE PROFILE ADDENDUM

Profile Number: CA579401

## F. Addendum to Waste Stream Information

1. If this is USEPA hazardous waste (40 CFR Part 261), identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U):

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2. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Constituents <i>(Total Composition Must be &gt; 100%)</i>	Lower Range	Unit of Measure	Upper Range	Unit of Measure
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

3. Is this a State Hazardous Waste?  Yes  No

If yes, please list applicable codes

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**McC Campbell Analytical, Inc.**

*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mccampbell.com / E-mail: main@mccampbell.com

## Analytical Report

ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny #ICES 7016; Piedmont Cleaners, O	Date Sampled: 01/13/12
		Date Received: 01/13/12
	Client Contact: Peng Leong	Date Reported: 01/18/12
	Client P.O.:	Date Completed: 01/17/12

**WorkOrder: 1201298**

January 18, 2012

Dear Peng:

Enclosed within are:

- 1) The results of the 1. analyzed sample from your project: **#ICES 7016; Sunny #ICES 7016; Piedmont Cleaner**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

***The analytical results relate only to the items tested.***



ICES  P.O. Box 99288  Emeryville, CA 94662	Client Project ID: #ICES 7016; Sunny #ICES 7016; Piedmont Cleaners, O	Date Sampled: 01/13/12
	Client Contact: Peng Leong	Date Received: 01/13/12
	Client P.O.:	Date Extracted: 01/13/12
		Date Analyzed: 01/14/12

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1201298

Lab ID	1201298-001A
Client ID	CSP-1
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	0.039	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, Total	ND	1.0	0.005

**Surrogate Recoveries (%)**

%SS1:	101	%SS2:	108
%SS3:	110		

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 64013

WorkOrder: 1201298

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1201267-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	0.050	77.4	79	2.03	91.1	70 - 130	30	70 - 130	
Benzene	ND	0.050	88	87.2	0.975	105	70 - 130	30	70 - 130	
t-Butyl alcohol (TBA)	ND	0.20	83.9	88.2	5.04	107	70 - 130	30	70 - 130	
Chlorobenzene	ND	0.050	87.5	92.5	5.56	104	70 - 130	30	70 - 130	
1,2-Dibromoethane (EDB)	ND	0.050	79	87.1	9.80	105	70 - 130	30	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	89.1	81.1	9.51	101	70 - 130	30	70 - 130	
1,1-Dichloroethene	ND	0.050	76.5	76.6	0.0650	106	70 - 130	30	70 - 130	
Diisopropyl ether (DIPE)	ND	0.050	83.7	79.5	5.22	97.8	70 - 130	30	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	0.050	83	79.6	4.24	95.9	70 - 130	30	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	0.050	81.8	81	0.967	94.6	70 - 130	30	70 - 130	
Toluene	ND	0.050	89.9	93.4	3.81	112	70 - 130	30	70 - 130	
Trichloroethene	ND	0.050	88.1	92	4.35	109	70 - 130	30	70 - 130	
%SS1:	101	0.12	106	108	1.72	102	70 - 130	30	70 - 130	
%SS2:	110	0.12	102	103	0.918	111	70 - 130	30	70 - 130	
%SS3:	112	0.012	103	110	6.12	110	70 - 130	30	70 - 130	

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

BATCH 64013 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1201298-001A	01/13/12 9:50 AM	01/13/12	01/14/12 3:50 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.



**McCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD  
PITTSBURG, CA 94565-1701

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (877) 252-9262 Fax: (925) 252-9269

1201298

**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](mailto:derek_ices@yahoo.com)  
Tel: (510) 652-3222 Fax: (510) 652-3555  
Project #: ICES 7016 Project Name:  
Project Location: Sunny Piedmont Cleaners, Oakland, CA  
Sampler Signature: *[Signature]*

Analysis Request Other Comments

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other			
CSP-1		1-13-12	9:50	1	<del>Metal</del>		x					x					

- BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE
- TPH as Diesel/Motor Oil (8015)
- Total Petroleum Oil & Grease (1664 / 8220 E/BAF)
- Total Petroleum Hydrocarbons (418.1)
- EPA 502.3 / 601 / 8010 / 8021 (HVOCS)
- MTBE / BTEX ONLY (EPA 602 / 8021)
- EPA 505 / 608 / 8081 (CI Pesticides)
- EPA 608 / 8052 PCB's ONLY; Aroclars / Congeners
- EPA 507 / 8141 (NP Pesticides)
- EPA 515 / 8151 (Acidic CI Herbicides)
- EPA 524.3 / 624 / 8260 (VOCs)
- EPA 525.2 / 625 / 8270 (SVOCs)
- EPA 8270 SIM / 8310 (PAHs / PNAs)
- CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)
- LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)
- Lead (200.7 / 200.8 / 6010 / 6020)
- Filter sample for DISSOLVED metals analysis

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

\*\*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: *[Signature]* Date: 1-13-12 Time: 10:25 Received By: *[Signature]*

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

ICE# 10-8-106  
GOOD CONDITION  
HEAD SPACE ABSENT  
DECHLORINATED IN LAB  
APPROPRIATE CONTAINERS  
PRESERVED IN LAB

VOAS O&G METALS OTHER  
PRESERVATION pH<2

COMMENTS:



**McC Campbell Analytical, Inc.**



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 1201298

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) 652-3222   FAX: (510) 652-3555

Email: derek\_ices@yahoo.com  
cc:  
PO:  
ProjectNo: #ICES 7016; Sunny #ICES 7016;  
Piedmont Cleaners, Oakland CA

Bill to:

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

Requested TAT: 5 days

Date Received: 01/13/2012

Date Printed: 01/13/2012

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			
1201298-001	CSP-1	Soil	1/13/2012 9:50	<input type="checkbox"/>	A														

**Test Legend:**

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

Prepared by: Maria 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 E**

**WASTE MANIFEST**

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CAC002088317</b>	2. Page 1 of 1	3. Emergency Response Phone <b>(800)424-9300</b>	4. Manifest Tracking Number <b>007034322 JJK</b>			
5. Generator's Name and Mailing Address <b>SUNNY PIEDMONT CLEANERS 4363 PIEDMONT AVE OAKLAND CA 94611</b>				Generator's Site Address (if different than mailing address) <b>658-2119 (510) 888-1999</b>				
6. Transporter 1 Company Name				U.S. EPA ID Number				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>CHEMICAL WASTE MANAGEMENT, INC. 35251 OLD SKYLINE ROAD KETTLEMAN CITY CA 93238</b>				U.S. EPA ID Number <b>CAT000848117</b>				
Facility's Phone: <b>(569) 388-9711</b>								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. <b>NA3077, HAZARDOUS WASTE, SOLID, N.O.S.; 9, III, (F002), (SOIL CONTAMINATED WITH TETRACHLOROETHENE)</b> <b>CA879401</b>	002	DM	01400	P	F002	611	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information								
15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name <b>Ya Kun Koo</b>				Signature <i>[Signature]</i>		Month Day Year <b>5 1 12</b>		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name <b>J. F. Golden</b>				Signature <i>[Signature]</i>		Month Day Year <b>5 1 12</b>		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month Day Year		