

December 22, 2014

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Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Attention: Mr. Jerry Wickham

**Transmittal**  
**Groundwater Monitoring Report, Second Semi-Annual 2014 Event**  
**Sparkle Cleaners**  
**Eastmont Town Center**  
**7000 Bancroft Avenue**  
**Oakland, California**  
**SLIC Case RO0002942**

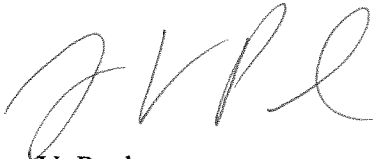
Dear Mr. Wickham:

Submitted herewith for your review is the Groundwater Monitoring Report for the Second Semi-Annual 2014 Event, prepared by PES Environmental, Inc.

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.

Yours very truly,

**Eastmont Oakland Associates, LLC**



James V. Paul  
Executive Vice President – Asset Management

cc: Gary Thomas – PES Environmental, Inc.  
Ms. Beena Standig – Unico Management Services

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A Report Prepared for:

Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Attention: Mr. Jerry Wickham

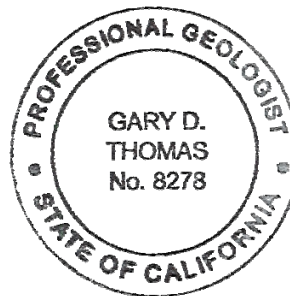
**GROUNDWATER MONITORING REPORT  
SECOND SEMI-ANNUAL 2014 EVENT  
SPARKLE CLEANERS  
EASTMONT TOWN CENTER  
7000 BANCROFT AVENUE  
OAKLAND, CALIFORNIA**

**DECEMBER 22, 2014**

By:

A handwritten signature in blue ink, appearing to read "Gary Thomas", is written over a horizontal line.

Gary Thomas, P.G.  
Senior Geologist



A handwritten signature in blue ink, appearing to read "William W. Mast", is written over a horizontal line.

William W. Mast, P.G.  
Principal Engineer

**881.060.03.013**

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## 1.0 INTRODUCTION

This report presents the results of groundwater monitoring activities conducted during the second semi-annual 2014 monitoring event at the Sparkle Cleaners facility (Site). The Site is located at 7000 Bancroft Avenue, Oakland, California and is situated in the northwest portion of Eastmont Town Center (Plates 1 and 2). Sparkle Cleaners is an active dry-cleaning facility. Until December 2008, tetrachloroethene (PCE) was used as the dry-cleaning solvent. At that time the PCE-based equipment was decommissioned, removed from the property, and replaced with new clothes cleaning equipment that utilizes “wet-cleaning” technology with a soy-based cleaner (i.e., no hazardous chemicals are used or stored on the Site). This report has been prepared for the Alameda County Environmental Health Department (ACEH) by PES Environmental, Inc. (PES) on behalf of SKB – Eastmont Oakland Associates, LLC (SKBEOA), the property owner.

## 2.0 BACKGROUND INFORMATION

The groundwater monitoring activities were conducted in accordance with the Remedial Action Workplan (RAW) that was approved by ACEH in a letter dated February 27, 2007 (PES, 2007a; ACEH, 2007a). The scope of work in the RAW also included removing the source of PCE soil contamination beneath Sparkle Cleaners and installing four groundwater monitoring wells. Excavation activities to remove the source of PCE in soil were successfully completed in July 2007 and documented in the report titled *Post-Remediation Report, Voluntary Soil Remediation, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California* (PES, 2007b) that was previously submitted to ACEH. The groundwater monitoring wells were installed in July 2007 and the baseline groundwater sampling event was conducted in August 2007. The details of the well installations and the results of the baseline sampling event are presented in the *Third Quarter 2007 Groundwater Monitoring Report* (PES, 2007c). In a letter dated October 4, 2007, ACEH provided comments on the *Post-Remediation Report* and requested additional analytical testing during two quarters of groundwater monitoring (ACEH, 2007b). After four quarters of groundwater monitoring were completed in June 2008, PES recommended that the frequency of monitoring be reduced to a semi-annual basis (PES, 2008). ACEH agreed with this recommendation in a letter dated October 23, 2008 (ACEH, 2008).

As described in the RAW, the purpose of the groundwater monitoring is to: (1) document the initial concentrations of volatile organic compounds (VOCs) in the newly installed wells at the Site; (2) monitor groundwater flow directions(s), gradient, and seasonal fluctuations; (3) evaluate the groundwater chemical response to the removal of the source of contamination; and (4) verify that groundwater quality down gradient of Sparkle Cleaners is not declining.

### **3.0 SITE DESCRIPTION**

The Sparkle Cleaners tenant space (Suite 11) covers approximately 1,800 square feet in the northwest portion of Eastmont Town Center (Plate 2). The area in front (north) of Sparkle Cleaners includes storefront parking and a mall driveway. The rear (south) of the tenant space opens into a common hallway that traverses the width of the building from east to west. An alleyway is located approximately 20 feet to the east.

The ground surface elevation at Sparkle Cleaners is approximately 60 feet above mean seal level (MSL). The Site topography slopes gently to the southwest. To the east and northeast of the Site, the topography steepens and continues to rise to approximately 360 feet MSL (Plate 1).

### **4.0 GROUNDWATER MONITORING WELL SAMPLING ACTIVITIES**

Groundwater monitoring activities for the current event consisted of: (1) collection of depth to groundwater measurements and calculation of groundwater elevations; (2) groundwater sample collection; and (3) laboratory analysis of the samples for halogenated VOCs. Field activities were conducted by Blaine Tech Services (BTS) of San Jose, California on November 21, 2014. Construction details for the four monitoring wells are provided in Table 1.

#### **4.1 Depth to Groundwater Measurements**

Depth-to-groundwater measurements were obtained for the monitoring wells using an electronic water-level indicator and recorded to the nearest 0.01-foot. The portion of the water-level indicator that was submerged in the wells was cleaned with a solution of Alconox and deionized (DI) water, and then rinsed with DI water between measurements. Decontamination fluids were stored temporarily on the Site in a DOT-approved 55-gallon drum pending off-Site disposal. Depth-to-groundwater data were converted to groundwater elevations referenced to mean sea level and are presented in Table 2. Groundwater elevation contours are presented on Plate 2.

#### **4.2 Monitoring Well Sampling**

After collecting water-level data, BTS collected monitoring well samples for laboratory analysis. A minimum of three casing volumes of groundwater were purged from the wells with an electric submersible pump prior to collecting the samples. Samples were collected using a disposable bailer and decanted into laboratory-provided sample containers. Groundwater temperature, pH, conductivity, and turbidity were monitored during purging. The BTS monitoring well sampling forms are presented in Appendix A.

The samples were transported to TestAmerica Laboratories, Inc. (TestAmerica) under chain-of-custody protocol and analyzed for halogenated VOCs (8010 list) using U.S. Environmental Protection Agency (EPA) Test Method 8260B.

## **5.0 GROUNDWATER MONITORING RESULTS**

### **5.1 Groundwater Elevation Measurements**

Groundwater elevations measured during the current monitoring event ranged from 22.10 feet MSL in well MW-01 to 32.03 feet MSL in well MW-02 (see Table 2 and Plate 2). As indicated on Plate 2, the elevation data from well MW-02 is not used for contouring because the groundwater elevation in this well is significantly higher than the elevations in the other wells. As described in the previous monitoring reports, the cause of the higher water-level elevation at well MW-02 appears to be from a screen interval that is at least 9 feet shallower (i.e., relative to the ground surface) than the other three wells. Well MW-02 was constructed in this manner because groundwater was observed at a shallower depth while drilling the borehole for this well.

Based on the groundwater elevation data from wells MW-01, MW-03, and MW-04, the hydraulic gradient during the current monitoring event was approximately 0.045 foot per foot to the west (see Plate 2). In addition, the analytical results discussed below suggest a westerly to northwesterly direction for groundwater flow.

### **5.2 Groundwater Sample Analytical Results**

The analytical results for the groundwater samples collected during the current monitoring event are summarized below and presented in Table 3. The laboratory analytical report and chain-of-custody documentation are provided in Appendix B.

PCE was detected in three of the four monitoring wells at concentrations ranging from 1.2 micrograms per liter ( $\mu\text{g/L}$ ) in well MW-03 to 120  $\mu\text{g/L}$  in well MW-01 (PCE was also detected at 130  $\mu\text{g/L}$  in the duplicate sample from well MW-01). TCE was detected at a concentration of 3.0  $\mu\text{g/L}$  in well MW-01 and cis-1,2-dichloroethene (cis-1,2-DCE) was detected at a concentration of 0.83  $\mu\text{g/L}$  in well MW-03. No other VOCs were detected at concentrations exceeding laboratory reporting limits in the samples from wells MW-01 through MW-03, and no VOCs were detected in well MW-04 (Table 3).

The distribution of PCE and TCE in groundwater is consistent with the observed westerly groundwater flow direction, and with prior monitoring data.

### **5.3 Quality Assurance/Quality Control Assessment of Chemical Data**

The quality of the chemical data reported by TestAmerica was assessed from the results of internal laboratory spike and method blank. The data are within acceptable recovery limits. The results for the duplicate sample collected at MW-01 indicate good reproducibility with PCE and TCE detected in both the regular and duplicate sample. The relative percent differences for the PCE and TCE concentrations detected in this sample are 8.0 and 0 percent, respectively. The water samples were analyzed within acceptable EPA holding times. The data from TestAmerica are considered to be representative and of good quality.

### **6.0 SUMMARY**

The second semi-annual 2014 groundwater monitoring event has been conducted in accordance with approved procedures.

Based on the groundwater elevation data from wells MW-01, MW-03, and MW-04, groundwater flow at the Site during this sampling event continues to be westerly (see Plate 2). The only VOC constituents detected above laboratory reporting limits in groundwater during this monitoring event were PCE, TCE, and cis-1,2-DCE. The maximum concentrations of PCE and TCE were detected in well MW-01 at 120  $\mu\text{g/L}$  and 3.0  $\mu\text{g/L}$ , respectively. PCE and TCE were also detected at 130  $\mu\text{g/L}$  and 3.0  $\mu\text{g/L}$ , respectively, in the duplicate sample from well MW-01. These concentrations are generally similar to those observed during previous monitoring events. Groundwater monitoring data collected since removal of the vadose zone source area in 2007 indicate that VOC concentrations are fairly stable in downgradient monitoring wells MW-01 and MW-02.

The next monitoring event is scheduled for March 2015.

### **7.0 REFERENCES**

- Alameda County Environmental Health (ACEH), 2007a. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Work Plan Approval*. February 27.
- ACEH, 2007b. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Post-Remediation Report Review*. October 4.
- ACEH, 2008. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Post-Remediation Report Review*. October 23.



- ACEH, 2009. *SLIC Case RO0002942 and Geotracker Global ID SLT19735483, Sparkle Cleaners, 7000 Bancroft Avenue, Oakland, CA 94605 – Groundwater Monitoring.* September 4.
- PES Environmental, Inc. (PES), 2007a. *Remedial Action Workplan, Voluntary Soil Remediation, Sparkle Cleaner, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California.* January 5.
- PES, 2007b. *Post-Remediation Report, Voluntary Soil Remediation, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California.* September 9.
- PES, 2007c. *Third Quarter 2007 Groundwater Monitoring Report, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California.* October 8.
- PES, 2008. *Second Quarter 2008 Groundwater Monitoring Report, Sparkle Cleaners, Eastmont Town Center, 7000 Bancroft Avenue, Oakland, California.* September 29.

**TABLES**

**Table 1**  
**Groundwater Monitoring Well Construction Details**  
**Sparkle Cleaners**  
**Eastmont Town Center**  
**7000 Bancroft Avenue**  
**Oakland, California**

Well ID	Date Completed	Top of Casing Elevation (feet MSL)	Borehole Diameter (inches)	Borehole Depth (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)	Sand Filter Pack Interval (feet bgs)	Screen Slot Size (inches)
MW-01	7/23/2007	49.51	8	47	47	2	31.5 to 46.5	29.5 to 47	0.020
MW-02	7/24/2007	49.07	8	36.5	35	2	19.5 to 34.5	17.5 to 36.5	0.020
MW-03	7/24/2007	50.43	8	44	44	2	28.5 to 43.5	26.5 to 44	0.020
MW-04	7/23/2007	49.81	8	48.5	48.5	2	33 to 48	31 to 48.5	0.020

**Note:**

bgs - Below ground surface

MSL - Mean sea level

**Table 2**  
**Groundwater Elevation Data**  
**Sparkle Cleaners**  
**Eastmont Town Center**  
**7000 Bancroft Avenue**  
**Oakland, California**

Well ID	Date Measured	Top of Casing Elevation (feet MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet MSL)
MW-01	8/7/2007	49.51	23.62	25.89
MW-01	11/19/2007	49.51	24.85	24.66
MW-01	2/6/2008	49.51	22.93	26.58
MW-01	5/15/2008	49.51	23.52	25.99
MW-01	11/19/2008	49.51	26.80	22.71
MW-01	5/14/2009	49.51	23.92	25.59
MW-01	1/5/2010	49.51	25.64	23.87
MW-01	5/20/2011	49.51	21.02	28.49
MW-01	3/18/2013	49.51	23.40	26.11
MW-01	9/27/2013	49.51	25.69	23.82
MW-01	3/12/2014	49.51	26.52	22.99
MW-01	11/21/2014	49.51	27.41	22.10
MW-02	8/7/2007	49.07	14.30	34.77
MW-02	11/19/2007	49.07	14.83	34.24
MW-02	2/6/2008	49.07	14.11	34.96
MW-02	5/15/2008	49.07	13.07	36.00
MW-02	11/19/2008	49.07	17.57	31.50
MW-02	5/14/2009	49.07	14.21	34.86
MW-02	1/5/2010	49.07	15.05	34.02
MW-02	5/20/2011	49.07	10.28	38.79
MW-02	3/18/2013	49.07	13.02	36.05
MW-02	10/4/2013	49.07	15.00	34.07
MW-02	3/12/2014	49.07	14.64	34.43
MW-02	11/21/2014	49.07	17.04	32.03
MW-03	8/7/2007	50.43	17.82	32.61
MW-03	11/19/2007	50.43	24.70	25.73
MW-03	2/6/2008	50.43	22.86	27.57
MW-03	5/15/2008	50.43	22.27	28.16
MW-03	11/19/2008	50.43	23.64	26.79
MW-03	5/14/2009	50.43	22.37	28.06
MW-03	1/5/2010	50.43	24.00	26.43
MW-03	5/20/2011	50.43	18.31	32.12
MW-03	3/18/2013	50.43	18.93	31.50
MW-03	9/27/2013	50.43	20.26	30.17
MW-03	3/12/2014	50.43	20.31	30.12
MW-03	11/21/2014	50.43	21.49	28.94
MW-04	8/7/2007	49.81	22.43	27.38
MW-04	11/19/2007	49.81	23.81	26.00
MW-04	2/6/2008	49.81	22.80	27.01
MW-04	5/15/2008	49.81	22.32	27.49
MW-04	11/19/2008	49.81	25.60	24.21
MW-04	5/14/2009	49.81	23.50	26.31
MW-04	1/5/2010	49.81	24.52	25.29
MW-04	5/20/2011	49.81	19.39	30.42
MW-04	3/18/2013	49.81	22.07	27.74
MW-04	9/27/2013	49.81	24.81	25.00
MW-04	3/12/2014	49.81	25.39	24.42
MW-04	11/21/2014	49.81	27.21	22.60

**Note:**

MSL - Mean sea level

BTOC - Below top of casing

**Table 3**  
**Summary of Analytical Results for Groundwater Monitoring Well Samples**  
**Sparkle Cleaners**  
**Eastmont Town Center**  
**7000 Bancroft Avenue**  
**Oakland, California**

Sample Location	Sample Date	Petroleum Hydrocarbons		Volatile Organic Compounds									
		TPHg (µg/L)	TPHd (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	Other VOCs (µg/L)
MW-01	8/7/2007	NA	NA	60	3.1	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	8/7/2007	NA	NA	71	3.1	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01	11/19/2007	110 (1)	52	110	5.2	ND (1.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	11/19/2007	110 (1)	79	100	5.0	ND (1.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	2/6/2008	140 (1)	57	130	5.8	0.58	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	2/6/2008	140 (1)	65	130	5.7	0.60	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	5/15/2008	NA	NA	130	5.5	0.53	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01 (D)	5/15/2008	NA	NA	140	5.4	0.54	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-01	11/19/2008	NA	NA	110	4.4	ND (1.0)	ND (2.0)	NA	NA	NA	NA	NA	ND
MW-01 (D)	11/19/2008	NA	NA	110	4.3	ND (1.0)	ND (2.0)	NA	NA	NA	NA	NA	ND
MW-01	5/14/2009	NA	NA	160	5.3	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	5/14/2009	NA	NA	140	4.9	ND (2.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	1/5/2010	NA	NA	110	4.1	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	1/5/2010	NA	NA	120	4.3	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	5/20/2011	NA	NA	110	4.0	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	5/20/2011	NA	NA	120	4.3	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	3/18/2013	NA	NA	150	3.4	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	3/18/2013	NA	NA	150	3.5	ND (1.0)	NA	NA	NA	NA	NA	NA	ND
MW-01	9/27/2013	NA	NA	120	3.1	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	9/27/2013	NA	NA	120	3.0	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01	3/12/2014	NA	NA	130	3.4	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	3/12/2014	NA	NA	130	3.3	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01	11/21/2014	NA	NA	120	3.0	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-01 (D)	11/21/2014	NA	NA	130	3.0	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	8/7/2007	NA	NA	25	1.2	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	11/19/2007	ND (50)	120	26	0.93	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	2/6/2008	ND (50)	200	25	0.90	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	5/15/2008	NA	NA	20	0.91	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-02	11/19/2008	NA	NA	23	0.88	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-02	5/14/2009	NA	NA	31	0.84	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	1/5/2010	NA	NA	24	0.60	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	5/20/2011	NA	NA	39	1.2	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	3/18/2013	NA	NA	36	0.95	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	10/4/2013	NA	NA	26	0.91	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	3/12/2014	NA	NA	26	0.70	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-02	11/21/2014	NA	NA	16	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND

**Table 3**  
**Summary of Analytical Results for Groundwater Monitoring Well Samples**  
**Sparkle Cleaners**  
**Eastmont Town Center**  
**7000 Bancroft Avenue**  
**Oakland, California**

Sample Location	Sample Date	Petroleum Hydrocarbons		Volatile Organic Compounds									
		TPHg (µg/L)	TPHd (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	Other VOCs (µg/L)
MW-03	8/7/2007	NA	NA	1.6	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	11/19/2007	ND (50)	79	2.1	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	2/6/2008	ND (50)	70	2.0	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	5/15/2008	NA	NA	1.5	ND (0.50)	0.50	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-03	11/19/2008	NA	NA	2.0	ND (0.50)	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-03	5/14/2009	NA	NA	1.8	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	1/5/2010	NA	NA	1.5	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-03	5/20/2011	NA	NA	1.8	ND (0.50)	0.57	NA	NA	NA	NA	NA	NA	ND
MW-03	3/18/2013	NA	NA	1.6	ND (0.50)	0.67	NA	NA	NA	NA	NA	NA	ND
MW-03	9/27/2013	NA	NA	1.6	ND (0.50)	0.68	NA	NA	NA	NA	NA	NA	ND
MW-03	3/12/2014	NA	NA	1.7	ND (0.50)	0.85	NA	NA	NA	NA	NA	NA	ND
MW-03	11/21/2014	NA	NA	1.2	ND (0.50)	0.83	NA	NA	NA	NA	NA	NA	ND
MW-04	8/7/2007	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	11/19/2007	ND (50)	69	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	2/6/2008	ND (50)	ND (50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	5/15/2008	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	ND (0.50)	ND (0.50)	ND (5.0)	ND (1.0)	ND (0.50)	ND
MW-04	11/19/2008	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)	NA	NA	NA	NA	NA	ND
MW-04	5/14/2009	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	1/5/2010	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	5/20/2011	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	3/18/2013	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	9/27/2013	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	3/12/2014	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND
MW-04	11/21/2014	NA	NA	ND (0.50)	ND (0.50)	ND (0.50)	NA	NA	NA	NA	NA	NA	ND

**Notes:**

TPHg - Gasoline range organics (C5-C12)

TPHd - Diesel range organics (C10-C28)

DCE - Dichloroethene

PCE - Tetrachloroethene

TCE - Trichloroethene

cis-1,2-DCE = cis-1,2-dichloroethene

µg/L - Micrograms per liter

NA - Not Analyzed

ND (0.50) - Not detected at or above indicated laboratory reporting limit

ND - Not detected at or above the laboratory reporting limit (varies by analyte)

<sup>(D)</sup> - Field duplicate sample<sup>(1)</sup> - The analytical laboratory narrative states that the reported gasoline range organics concentration is due to the presence of PCE.

MTBE - Methyl tert-butyl ether

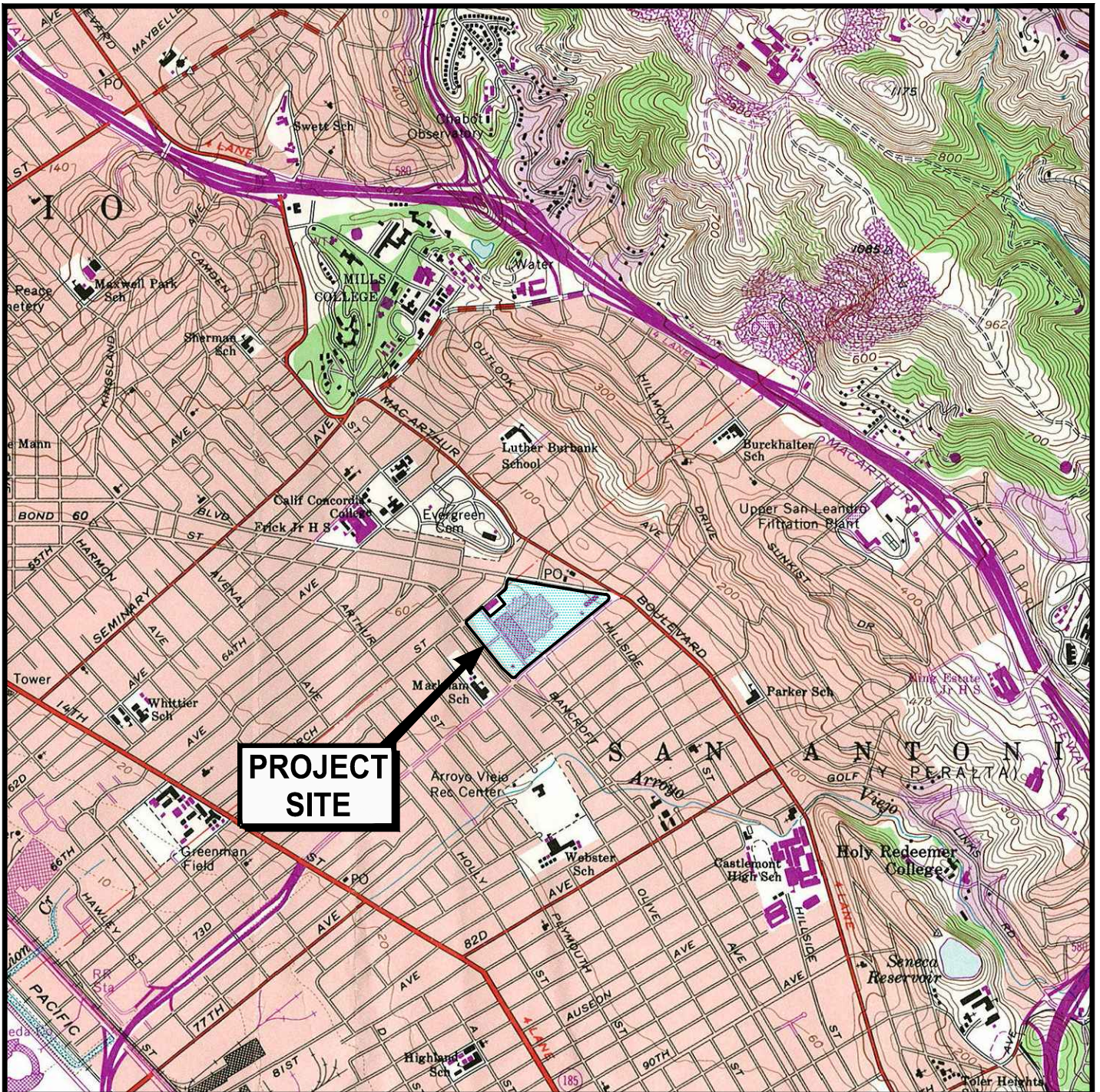
TAME - Tert-amyl methyl ether

TBA - Tert-butyl alcohol

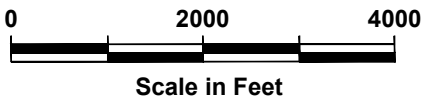
DIPE - Diisopropyl ether

ETBE - Ethyl tert-butyl ether

## **ILLUSTRATIONS**



**PROJECT SITE**



U.S.G.S. Topo Map - Oakland East, California, 7.5-minute quadrangle. Map version 1959; current as of 1980.

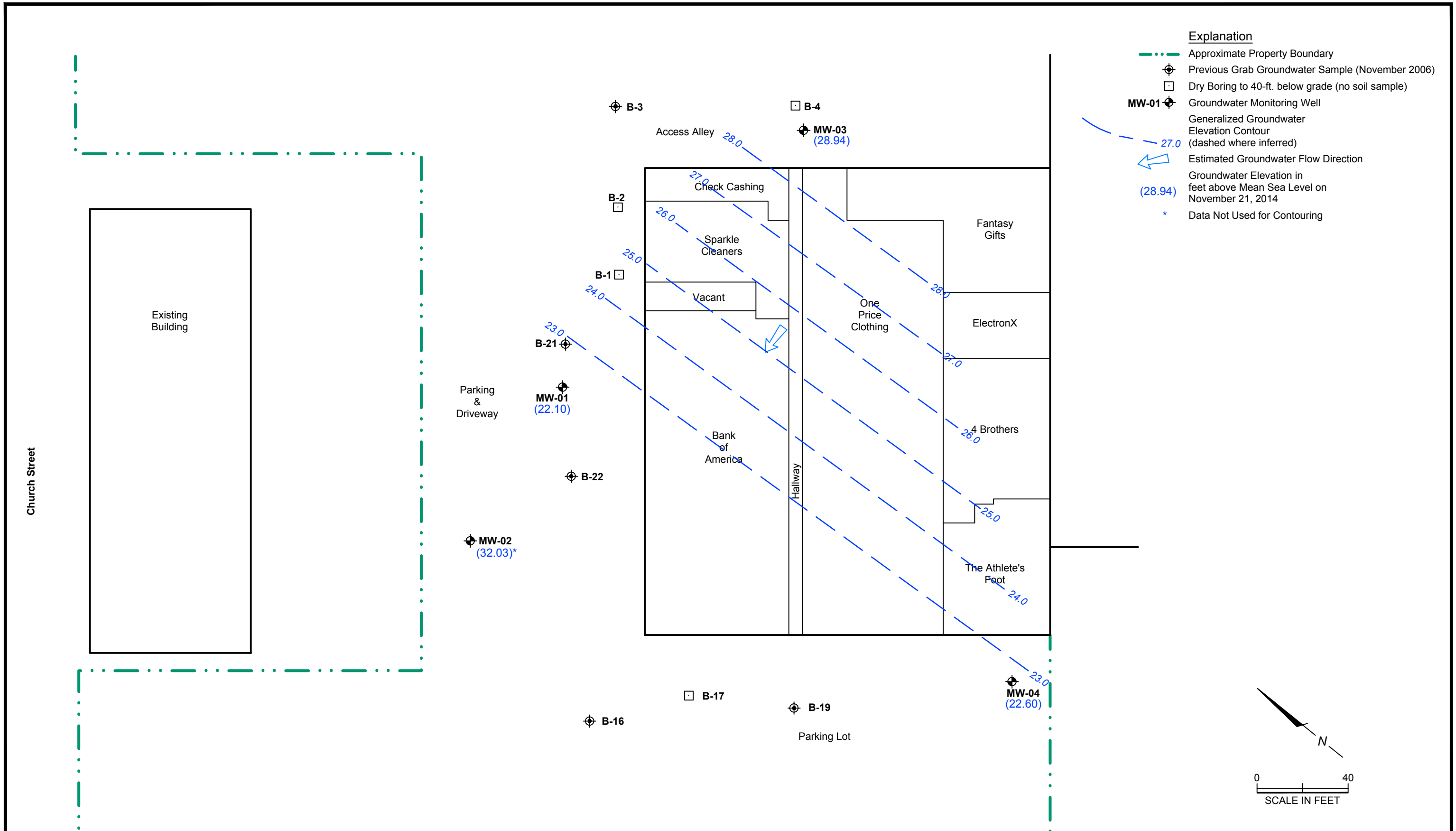


**Site Location Map**  
Sparkle Cleaners  
Eastmont Town Center  
Oakland, California

PLATE

**1**





**APPENDIX A**

**MONITORING WELL SAMPLING FORMS**

















**APPENDIX B**

**LABORATORY ANALYTICAL RESULTS AND  
CHAIN-OF-CUSTODY DOCUMENTATION**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

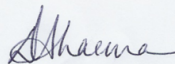
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-61462-1  
Client Project/Site: Eastmont Town Center

For:  
PES Environmental, Inc.  
1682 Novato Boulevard  
Suite 100  
Novato, California 94947-7021

Attn: Mr. Gary Thomas



Authorized for release by:  
11/26/2014 11:00:23 AM  
Dimple Sharma, Senior Project Manager  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

Designee for  
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### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

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**Job ID: 720-61462-1**

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**Laboratory: TestAmerica Pleasanton**

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**Narrative**

**Job Narrative**  
**720-61462-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/21/2014 5:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

**GC/MS VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Client Sample ID: TB-1

Lab Sample ID: 720-61462-1

No Detections.

## Client Sample ID: MW-01

Lab Sample ID: 720-61462-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	3.0		0.50		ug/L	1			8260B	Total/NA
Tetrachloroethene	120		0.50		ug/L	1			8260B	Total/NA

## Client Sample ID: MW-02

Lab Sample ID: 720-61462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	16		0.50		ug/L	1			8260B	Total/NA

## Client Sample ID: MW-03

Lab Sample ID: 720-61462-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.83		0.50		ug/L	1			8260B	Total/NA
Tetrachloroethene	1.2		0.50		ug/L	1			8260B	Total/NA

## Client Sample ID: MW-04

Lab Sample ID: 720-61462-5

No Detections.

## Client Sample ID: DUP

Lab Sample ID: 720-61462-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	3.0		0.50		ug/L	1			8260B	Total/NA
Tetrachloroethene	130		0.50		ug/L	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TB-1**  
**Date Collected: 11/21/14 12:15**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 11:11	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 11:11	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 11:11	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 11:11	1
Chloroethane	ND		1.0		ug/L			11/25/14 11:11	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 11:11	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 11:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 11:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 11:11	1
Chloroform	ND		1.0		ug/L			11/25/14 11:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 11:11	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 11:11	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 11:11	1
Trichloroethene	ND		0.50		ug/L			11/25/14 11:11	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 11:11	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 11:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 11:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 11:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 11:11	1
Tetrachloroethene	ND		0.50		ug/L			11/25/14 11:11	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 11:11	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 11:11	1
Bromoform	ND		1.0		ug/L			11/25/14 11:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 11:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:11	1
Chloromethane	ND		1.0		ug/L			11/25/14 11:11	1
Bromomethane	ND		1.0		ug/L			11/25/14 11:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 11:11	1
EDB	ND		0.50		ug/L			11/25/14 11:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		11/25/14 11:11	1
4-Bromofluorobenzene	111		67 - 130		11/25/14 11:11	1
1,2-Dichloroethane-d4 (Surr)	103		72 - 130		11/25/14 11:11	1

**Client Sample ID: MW-01**  
**Date Collected: 11/21/14 14:54**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-2**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 11:40	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 11:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 11:40	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 11:40	1
Chloroethane	ND		1.0		ug/L			11/25/14 11:40	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 11:40	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 11:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 11:40	1

TestAmerica Pleasanton



# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: MW-01**  
**Date Collected: 11/21/14 14:54**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-2**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 11:40	1
Chloroform	ND		1.0		ug/L			11/25/14 11:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 11:40	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 11:40	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 11:40	1
<b>Trichloroethene</b>	<b>3.0</b>		0.50		ug/L			11/25/14 11:40	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 11:40	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 11:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 11:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 11:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 11:40	1
<b>Tetrachloroethene</b>	<b>120</b>		0.50		ug/L			11/25/14 11:40	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 11:40	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 11:40	1
Bromoform	ND		1.0		ug/L			11/25/14 11:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 11:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 11:40	1
Chloromethane	ND		1.0		ug/L			11/25/14 11:40	1
Bromomethane	ND		1.0		ug/L			11/25/14 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 11:40	1
EDB	ND		0.50		ug/L			11/25/14 11:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	103		70 - 130		11/25/14 11:40	1
<i>4-Bromofluorobenzene</i>	110		67 - 130		11/25/14 11:40	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		72 - 130		11/25/14 11:40	1

**Client Sample ID: MW-02**  
**Date Collected: 11/21/14 14:27**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-3**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 12:09	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 12:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 12:09	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 12:09	1
Chloroethane	ND		1.0		ug/L			11/25/14 12:09	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 12:09	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 12:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 12:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 12:09	1
Chloroform	ND		1.0		ug/L			11/25/14 12:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 12:09	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 12:09	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 12:09	1
Trichloroethene	ND		0.50		ug/L			11/25/14 12:09	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 12:09	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 12:09	1

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: MW-02**  
**Date Collected: 11/21/14 14:27**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-3**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 12:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 12:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 12:09	1
<b>Tetrachloroethene</b>	<b>16</b>		0.50		ug/L			11/25/14 12:09	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 12:09	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 12:09	1
Bromoform	ND		1.0		ug/L			11/25/14 12:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 12:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 12:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 12:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 12:09	1
Chloromethane	ND		1.0		ug/L			11/25/14 12:09	1
Bromomethane	ND		1.0		ug/L			11/25/14 12:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 12:09	1
EDB	ND		0.50		ug/L			11/25/14 12:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		70 - 130					11/25/14 12:09	1
<i>4-Bromofluorobenzene</i>	109		67 - 130					11/25/14 12:09	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		72 - 130					11/25/14 12:09	1

**Client Sample ID: MW-03**  
**Date Collected: 11/21/14 14:05**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-4**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 13:37	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 13:37	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 13:37	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 13:37	1
Chloroethane	ND		1.0		ug/L			11/25/14 13:37	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 13:37	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 13:37	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 13:37	1
<b>cis-1,2-Dichloroethene</b>	<b>0.83</b>		0.50		ug/L			11/25/14 13:37	1
Chloroform	ND		1.0		ug/L			11/25/14 13:37	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 13:37	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 13:37	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 13:37	1
Trichloroethene	ND		0.50		ug/L			11/25/14 13:37	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 13:37	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 13:37	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 13:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 13:37	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 13:37	1
<b>Tetrachloroethene</b>	<b>1.2</b>		0.50		ug/L			11/25/14 13:37	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 13:37	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 13:37	1
Bromoform	ND		1.0		ug/L			11/25/14 13:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 13:37	1

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: MW-03**  
**Date Collected: 11/21/14 14:05**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-4**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 13:37	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 13:37	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 13:37	1
Chloromethane	ND		1.0		ug/L			11/25/14 13:37	1
Bromomethane	ND		1.0		ug/L			11/25/14 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 13:37	1
EDB	ND		0.50		ug/L			11/25/14 13:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		70 - 130					11/25/14 13:37	1
<i>4-Bromofluorobenzene</i>	106		67 - 130					11/25/14 13:37	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		72 - 130					11/25/14 13:37	1

**Client Sample ID: MW-04**  
**Date Collected: 11/21/14 13:21**  
**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-5**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 14:06	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 14:06	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 14:06	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 14:06	1
Chloroethane	ND		1.0		ug/L			11/25/14 14:06	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 14:06	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 14:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 14:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 14:06	1
Chloroform	ND		1.0		ug/L			11/25/14 14:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 14:06	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 14:06	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 14:06	1
Trichloroethene	ND		0.50		ug/L			11/25/14 14:06	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 14:06	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 14:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 14:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 14:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 14:06	1
Tetrachloroethene	ND		0.50		ug/L			11/25/14 14:06	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 14:06	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 14:06	1
Bromoform	ND		1.0		ug/L			11/25/14 14:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 14:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:06	1
Chloromethane	ND		1.0		ug/L			11/25/14 14:06	1
Bromomethane	ND		1.0		ug/L			11/25/14 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 14:06	1
EDB	ND		0.50		ug/L			11/25/14 14:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 14:06	1

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		11/25/14 14:06	1
4-Bromofluorobenzene	104		67 - 130		11/25/14 14:06	1
1,2-Dichloroethane-d4 (Surr)	104		72 - 130		11/25/14 14:06	1

**Client Sample ID: DUP**

**Date Collected: 11/21/14 00:00**

**Date Received: 11/21/14 17:50**

**Lab Sample ID: 720-61462-6**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 14:35	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 14:35	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 14:35	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 14:35	1
Chloroethane	ND		1.0		ug/L			11/25/14 14:35	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 14:35	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 14:35	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 14:35	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 14:35	1
Chloroform	ND		1.0		ug/L			11/25/14 14:35	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 14:35	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 14:35	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 14:35	1
<b>Trichloroethene</b>	<b>3.0</b>		0.50		ug/L			11/25/14 14:35	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 14:35	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 14:35	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 14:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 14:35	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 14:35	1
<b>Tetrachloroethene</b>	<b>130</b>		0.50		ug/L			11/25/14 14:35	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 14:35	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 14:35	1
Bromoform	ND		1.0		ug/L			11/25/14 14:35	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 14:35	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:35	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:35	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 14:35	1
Chloromethane	ND		1.0		ug/L			11/25/14 14:35	1
Bromomethane	ND		1.0		ug/L			11/25/14 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 14:35	1
EDB	ND		0.50		ug/L			11/25/14 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		11/25/14 14:35	1
4-Bromofluorobenzene	106		67 - 130		11/25/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	106		72 - 130		11/25/14 14:35	1

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-171560/5**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50		ug/L			11/25/14 08:45	1
1,1-Dichloroethane	ND		0.50		ug/L			11/25/14 08:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/25/14 08:45	1
Vinyl chloride	ND		0.50		ug/L			11/25/14 08:45	1
Chloroethane	ND		1.0		ug/L			11/25/14 08:45	1
Trichlorofluoromethane	ND		1.0		ug/L			11/25/14 08:45	1
Methylene Chloride	ND		5.0		ug/L			11/25/14 08:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 08:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/25/14 08:45	1
Chloroform	ND		1.0		ug/L			11/25/14 08:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/25/14 08:45	1
Carbon tetrachloride	ND		0.50		ug/L			11/25/14 08:45	1
1,2-Dichloroethane	ND		0.50		ug/L			11/25/14 08:45	1
Trichloroethene	ND		0.50		ug/L			11/25/14 08:45	1
1,2-Dichloropropane	ND		0.50		ug/L			11/25/14 08:45	1
Dichlorobromomethane	ND		0.50		ug/L			11/25/14 08:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 08:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/25/14 08:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/25/14 08:45	1
Tetrachloroethene	ND		0.50		ug/L			11/25/14 08:45	1
Chlorodibromomethane	ND		0.50		ug/L			11/25/14 08:45	1
Chlorobenzene	ND		0.50		ug/L			11/25/14 08:45	1
Bromoform	ND		1.0		ug/L			11/25/14 08:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/25/14 08:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/25/14 08:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/25/14 08:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/25/14 08:45	1
Chloromethane	ND		1.0		ug/L			11/25/14 08:45	1
Bromomethane	ND		1.0		ug/L			11/25/14 08:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/25/14 08:45	1
EDB	ND		0.50		ug/L			11/25/14 08:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/25/14 08:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		11/25/14 08:45	1
4-Bromofluorobenzene	106		67 - 130		11/25/14 08:45	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 130		11/25/14 08:45	1

**Lab Sample ID: LCS 720-171560/6**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128
1,1-Dichloroethane	25.0	27.2		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	29.0		ug/L		116	34 - 132
Vinyl chloride	25.0	21.6		ug/L		86	54 - 135
Chloroethane	25.0	25.8		ug/L		103	62 - 138

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-171560/6**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	28.7		ug/L		115	66 - 132
Methylene Chloride	25.0	25.0		ug/L		100	70 - 147
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	68 - 130
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
Chloroform	25.0	25.4		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	25.6		ug/L		103	70 - 130
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 146
1,2-Dichloroethane	25.0	24.7		ug/L		99	61 - 132
Trichloroethene	25.0	22.7		ug/L		91	70 - 130
1,2-Dichloropropane	25.0	27.4		ug/L		110	70 - 130
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	31.4		ug/L		126	70 - 140
cis-1,3-Dichloropropene	25.0	29.0		ug/L		116	70 - 130
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
Tetrachloroethene	25.0	23.1		ug/L		92	70 - 130
Chlorodibromomethane	25.0	24.3		ug/L		97	70 - 145
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Bromoform	25.0	20.8		ug/L		83	68 - 136
1,1,2,2-Tetrachloroethane	25.0	27.4		ug/L		109	70 - 130
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
Chloromethane	25.0	27.4		ug/L		110	52 - 175
Bromomethane	25.0	24.1		ug/L		96	43 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.6		ug/L		82	42 - 162
EDB	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130

**Lab Sample ID: LCSD 720-171560/7**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128	0	20
1,1-Dichloroethane	25.0	27.0		ug/L		108	70 - 130	1	20
Dichlorodifluoromethane	25.0	28.3		ug/L		113	34 - 132	2	20
Vinyl chloride	25.0	21.1		ug/L		85	54 - 135	2	20
Chloroethane	25.0	25.2		ug/L		101	62 - 138	2	20
Trichlorofluoromethane	25.0	28.8		ug/L		115	66 - 132	0	20
Methylene Chloride	25.0	25.2		ug/L		101	70 - 147	1	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	68 - 130	1	20
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-171560/7**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroform	25.0	25.5		ug/L		102	70 - 130	0	20	
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20	
Carbon tetrachloride	25.0	24.8		ug/L		99	70 - 146	1	20	
1,2-Dichloroethane	25.0	24.8		ug/L		99	61 - 132	0	20	
Trichloroethene	25.0	22.6		ug/L		90	70 - 130	0	20	
1,2-Dichloropropane	25.0	27.7		ug/L		111	70 - 130	1	20	
Dichlorobromomethane	25.0	26.2		ug/L		105	70 - 130	1	20	
trans-1,3-Dichloropropene	25.0	31.9		ug/L		128	70 - 140	2	20	
cis-1,3-Dichloropropene	25.0	29.3		ug/L		117	70 - 130	1	20	
1,1,2-Trichloroethane	25.0	26.9		ug/L		107	70 - 130	3	20	
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130	1	20	
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 145	3	20	
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	0	20	
Bromoform	25.0	21.4		ug/L		86	68 - 136	3	20	
1,1,2,2-Tetrachloroethane	25.0	28.5		ug/L		114	70 - 130	4	20	
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	0	20	
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20	
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	1	20	
Chloromethane	25.0	26.7		ug/L		107	52 - 175	2	20	
Bromomethane	25.0	23.7		ug/L		95	43 - 151	2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.6		ug/L		83	42 - 162	0	20	
EDB	25.0	24.8		ug/L		99	70 - 130	1	20	
1,2,4-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130

**Lab Sample ID: 720-61462-4 MS**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: MW-03**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1-Dichloroethene	ND		25.0	21.2		ug/L		85	60 - 140	
1,1-Dichloroethane	ND		25.0	26.9		ug/L		108	60 - 140	
Dichlorodifluoromethane	ND		25.0	27.1		ug/L		108	38 - 140	
Vinyl chloride	ND		25.0	19.8		ug/L		79	58 - 140	
Chloroethane	ND		25.0	24.7		ug/L		99	51 - 140	
Trichlorofluoromethane	ND		25.0	27.9		ug/L		112	60 - 140	
Methylene Chloride	ND		25.0	25.4		ug/L		101	40 - 140	
trans-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	60 - 140	
cis-1,2-Dichloroethene	0.83		25.0	26.2		ug/L		102	60 - 140	
Chloroform	ND		25.0	25.6		ug/L		102	60 - 140	
1,1,1-Trichloroethane	ND		25.0	25.0		ug/L		100	60 - 140	
Carbon tetrachloride	ND		25.0	23.7		ug/L		95	60 - 140	
1,2-Dichloroethane	ND		25.0	26.0		ug/L		104	60 - 140	

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 720-61462-4 MS**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: MW-03**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Trichloroethene	ND		25.0	22.3		ug/L		89	60 - 140
1,2-Dichloropropane	ND		25.0	27.9		ug/L		112	60 - 140
Dichlorobromomethane	ND		25.0	26.8		ug/L		107	60 - 140
trans-1,3-Dichloropropene	ND		25.0	33.5		ug/L		134	60 - 140
cis-1,3-Dichloropropene	ND		25.0	29.8		ug/L		119	60 - 140
1,1,2-Trichloroethane	ND		25.0	28.2		ug/L		113	60 - 140
Tetrachloroethene	1.2		25.0	23.8		ug/L		90	60 - 140
Chlorodibromomethane	ND		25.0	25.9		ug/L		104	60 - 140
Chlorobenzene	ND		25.0	24.2		ug/L		97	60 - 140
Bromoform	ND		25.0	22.1		ug/L		89	56 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	29.4		ug/L		117	60 - 140
1,3-Dichlorobenzene	ND		25.0	24.6		ug/L		98	60 - 140
1,4-Dichlorobenzene	ND		25.0	24.7		ug/L		99	60 - 140
1,2-Dichlorobenzene	ND		25.0	25.3		ug/L		101	60 - 140
Chloromethane	ND		25.0	25.7		ug/L		103	52 - 140
Bromomethane	ND		25.0	22.6		ug/L		90	23 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	19.6		ug/L		78	60 - 140
EDB	ND		25.0	26.5		ug/L		106	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	60 - 140

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		72 - 130

**Lab Sample ID: 720-61462-4 MSD**

**Matrix: Water**

**Analysis Batch: 171560**

**Client Sample ID: MW-03**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1-Dichloroethene	ND		25.0	21.3		ug/L		85	60 - 140	0	20
1,1-Dichloroethane	ND		25.0	27.0		ug/L		108	60 - 140	0	20
Dichlorodifluoromethane	ND		25.0	26.4		ug/L		106	38 - 140	3	20
Vinyl chloride	ND		25.0	20.2		ug/L		81	58 - 140	2	20
Chloroethane	ND		25.0	24.4		ug/L		98	51 - 140	1	20
Trichlorofluoromethane	ND		25.0	27.7		ug/L		111	60 - 140	1	20
Methylene Chloride	ND		25.0	24.9		ug/L		100	40 - 140	2	20
trans-1,2-Dichloroethene	ND		25.0	23.6		ug/L		94	60 - 140	0	20
cis-1,2-Dichloroethene	0.83		25.0	26.1		ug/L		101	60 - 140	0	20
Chloroform	ND		25.0	25.4		ug/L		101	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	25.0		ug/L		100	60 - 140	0	20
Carbon tetrachloride	ND		25.0	23.6		ug/L		95	60 - 140	0	20
1,2-Dichloroethane	ND		25.0	24.9		ug/L		100	60 - 140	4	20
Trichloroethene	ND		25.0	22.3		ug/L		89	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	27.8		ug/L		111	60 - 140	0	20
Dichlorobromomethane	ND		25.0	26.4		ug/L		106	60 - 140	1	20
trans-1,3-Dichloropropene	ND		25.0	32.1		ug/L		128	60 - 140	4	20

TestAmerica Pleasanton





# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## GC/MS VOA

### Analysis Batch: 171560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61462-1	TB-1	Total/NA	Water	8260B	
720-61462-2	MW-01	Total/NA	Water	8260B	
720-61462-3	MW-02	Total/NA	Water	8260B	
720-61462-4	MW-03	Total/NA	Water	8260B	
720-61462-4 MS	MW-03	Total/NA	Water	8260B	
720-61462-4 MSD	MW-03	Total/NA	Water	8260B	
720-61462-5	MW-04	Total/NA	Water	8260B	
720-61462-6	DUP	Total/NA	Water	8260B	
LCS 720-171560/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-171560/7	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-171560/5	Method Blank	Total/NA	Water	8260B	

# Lab Chronicle

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Client Sample ID: TB-1

Date Collected: 11/21/14 12:15

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 11:11	LPL	TAL PLS

## Client Sample ID: MW-01

Date Collected: 11/21/14 14:54

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 11:40	LPL	TAL PLS

## Client Sample ID: MW-02

Date Collected: 11/21/14 14:27

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 12:09	LPL	TAL PLS

## Client Sample ID: MW-03

Date Collected: 11/21/14 14:05

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 13:37	LPL	TAL PLS

## Client Sample ID: MW-04

Date Collected: 11/21/14 13:21

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 14:06	LPL	TAL PLS

## Client Sample ID: DUP

Date Collected: 11/21/14 00:00

Date Received: 11/21/14 17:50

Lab Sample ID: 720-61462-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	171560	11/25/14 14:35	LPL	TAL PLS

### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

# Certification Summary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

## Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte
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- 1
- 2
- 3
- 4
- 5
- 6
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- 14

# Method Summary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

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Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS

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**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



# Sample Summary

Client: PES Environmental, Inc.  
Project/Site: Eastmont Town Center

TestAmerica Job ID: 720-61462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-61462-1	TB-1	Water	11/21/14 12:15	11/21/14 17:50
720-61462-2	MW-01	Water	11/21/14 14:54	11/21/14 17:50
720-61462-3	MW-02	Water	11/21/14 14:27	11/21/14 17:50
720-61462-4	MW-03	Water	11/21/14 14:05	11/21/14 17:50
720-61462-5	MW-04	Water	11/21/14 13:21	11/21/14 17:50
720-61462-6	DUP	Water	11/21/14 00:00	11/21/14 17:50

- 1
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- 11
- 12
- 13
- 14

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

## CONDUCT ANALYSIS TO DETECT

LAB

TA - San Francisco

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION

157808

### SPECIAL INSTRUCTIONS

Invoice and Report to : PES  
 Attn: Gary Thomas  
**Report in Geotracker Format**

CHAIN OF CUSTODY

BTS # 14/121-MM2

CLIENT PES

SITE Eastmont Town Center  
7200 Bancroft Ave.  
Oakland, CA

SAMPLE I.D.	DATE	TIME	MATRIX		CONTAINERS	C = COMPOSITE ALL CONTAINERS	Halogenated VOCs (8010 List) by EPA 8260B
			S= SOIL	W=H <sub>2</sub> O			
TR-1	11-21-14	1215	W	4	WIP'S HCL	✓	
MW-01		1454	W	4		✓	
MW-02		1427	W	4		✓	
MW-03		1405	W	4		✓	
MW-04		1321	W	4		✓	
DUP		-	W	4		✓	

C = COMPOSITE ALL CONTAINERS

Halogenated VOCs (8010 List) by EPA 8260B

720-61462

ADD'L INFORMATION      STATUS      CONDITION      LAB SAMPLE



720-61462 Chain of Custody

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN	STANDARD TAT
	11-21-14		Mark McColloch			
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	
<i>[Signature]</i>	11-21-14	1615	<i>[Signature]</i>	11-21-14	1615	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	
<i>[Signature]</i>	11-21-14	1750	<i>[Signature]</i>	11-21-14	1750	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #			

3.6°C

## Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-61462-1

**Login Number: 61462**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Gonzales, Justinn**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





**DISTRIBUTION**

**GROUNDWATER MONITORING REPORT  
SECOND SEMI-ANNUAL 2014 EVENT  
SPARKLE CLEANERS  
EASTMONT TOWN CENTER  
7000 BANCROFT AVENUE  
OAKLAND, CALIFORNIA**

**DECEMBER 22, 2014**

**COPY NO. \_\_\_\_\_**

Copy No.

1 Copy	Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502  Attention: Mr. Jerry Wickham	PDF only
1 Copy	Eastmont Oakland Associates, LLC c/o ScanlanKemperBard Companies 810 NW Marshall Street, Suite 300 Portland, Oregon 97209  Attention: Mr. James V. Paul	1
1 Copy	Cushman Wakefield of California, Inc. Eastmont Town Center 7200 Bancroft Avenue, Suite 1 Oakland, California 94605  Attention: Ms. Beena Standig	2
1 Copy	PES Job File	3
1 Copy	Unbound Original	4